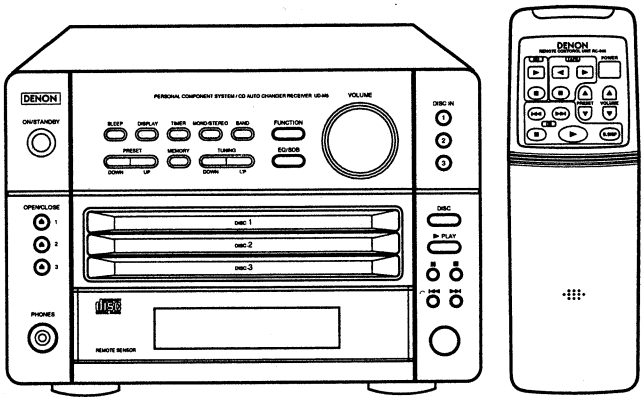
DENON

Hi-Fi Personal Component System

SERVICE MANUAL

MODEL UD-M5

STEREO CD RECEIVER



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● **Some illustrations using in this service manual are slightly different from the actual set.**

NIPPON COLUMBIA CO., LTD.

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

SPECIFICATIONS

- Receiver section

Reception frequency band:	FM: 87.50 MHz –108.00 MHz AM: 520 kHz – 1710 kHz (For U.S.A. & Canada models) AM: 522 kHz – 1611 kHz (For Europe & U.K. models) AM: 522 kHz – 1611 kHz (For Asia model)
Reception sensitivity:	FM: 1.5 μV / 75 Ω / ohms AM: 20 μV
FM stereo separation:	35 dB (1 kHz)
Rated output power:	30 W + 30 W (6 Ω / ohms, 1 kHz, T.H.D. 10 %)
Audio input / output jacks	TAPE input / output jacks, AUX input jacks, MD input / output jacks, PRE OUT (MONO) jack, 3.5 mm headphones jack

- CD player section

Wow & flutter:	Below measurable limits (± 0.001 % W.peak)
Sampling frequency:	44.1 kHz
Optical source:	Semiconductor
Video output jack:	VIDEO OUT jack / for Video CD (For Asia model)

- General

Power supply:	AC 120 V, 60 Hz (For U.S.A. & Canada models) AC 230 V, 50 Hz (For Europe, U.K. models) AC 230 V, 50 Hz (For Asia model)
Power consumption:	60W (For U.S.A. & Canada models) 60W (For Europe & U.K. models) 70W (For Asia model)
Maximum external dimensions:	210 (W) × 146 (H) × 381 (D) mm (8-17/64" × 5-3/4" × 15") (including feet, controls and terminals)
Weight:	5.5 kg (12lbs. 2 oz)

- Remote control unit (RC846) / (RC847: for Asia model)

Remote control system:	infrared pulse
Number of buttons:	54 / 55 for RC847
Power supply:	Two DC 1.5V R6P / AA batteries
Maximum external dimensions:	67 (W) × 197 (H) × 21 (D) mm (2-41/64" × 7-3/4" × 53/64")
Weight:	145 g (5.1 oz) (including batteries)

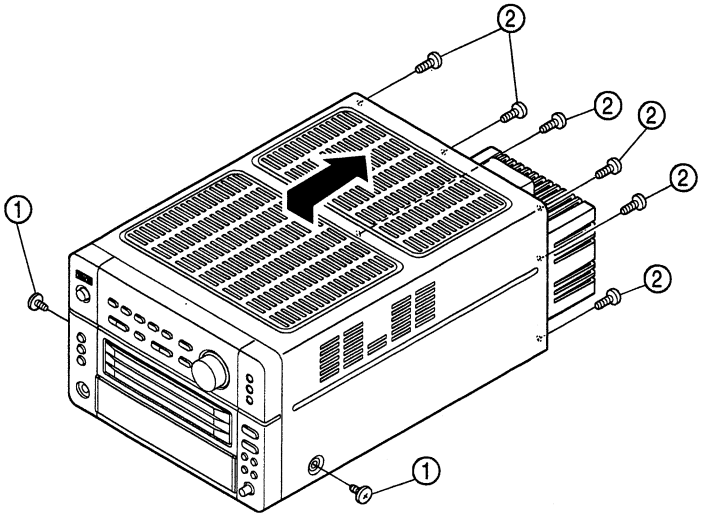
(W) = width, (H) = height, (D) = depth

DISASSEMBLY

(Follow the procedure below in reverse order when reassembling)

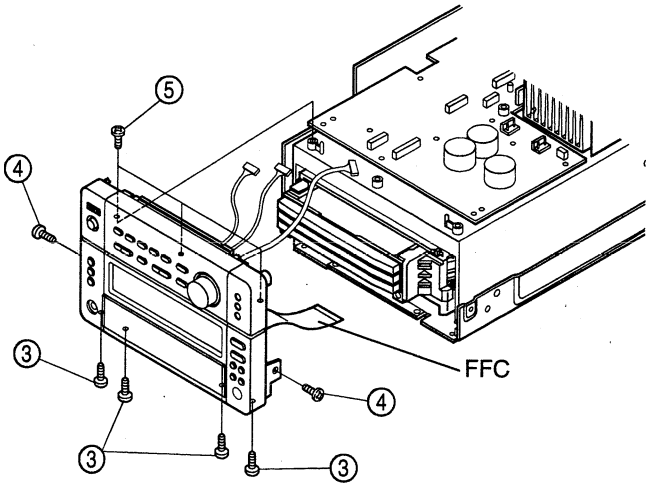
Top Cover

1. Remove 2 screws ① on both sides.
2. Remove 6 screws ② on the rear.
3. Detach the Top Cover as shown in the arrow direction.



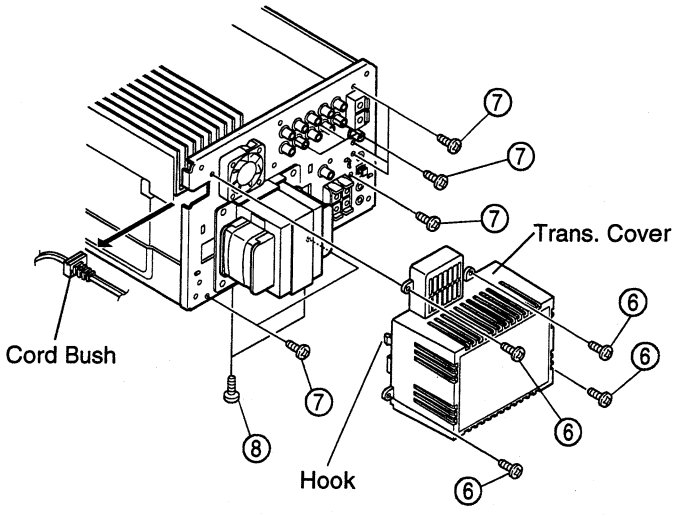
Front Panel

1. Remove 4 screws ③ on the bottom edge of the Front Panel.
2. Remove 2 screws ④ on both sides of the Front Panel.
3. Remove 3 screws ⑤.
4. Unplug 3 wire connectors coming out of the Front Panel's P.W.B.
5. Disconnect FFC from Motor P.W.B.



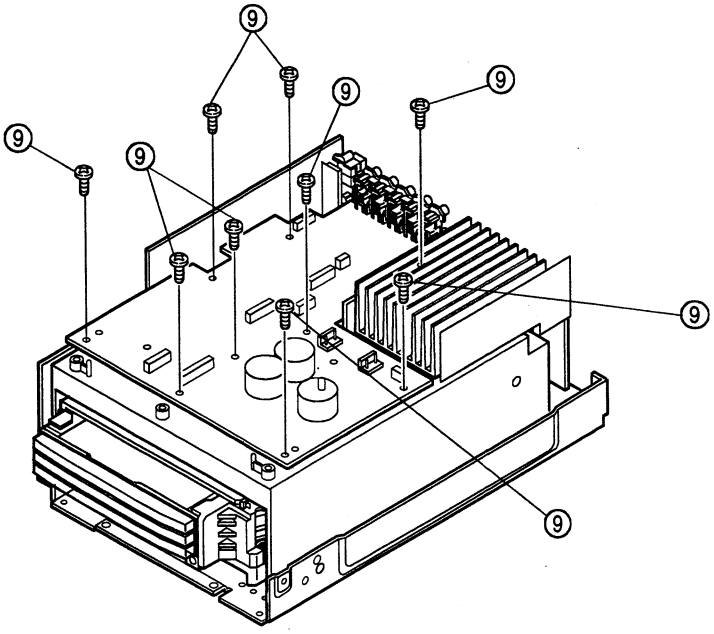
Rear Plate

1. Take off the Cord Bush from the Rear Plate.
2. Remove 4 screws ⑥ fixing Trans. Cover.
3. Release hook of the Trans. Cover.
4. Remove 8 screws (for Asia model: 9 screws) ⑦ from the Rear Plate.
5. Remove 2 screws ⑧, and detach the Rear Plate.



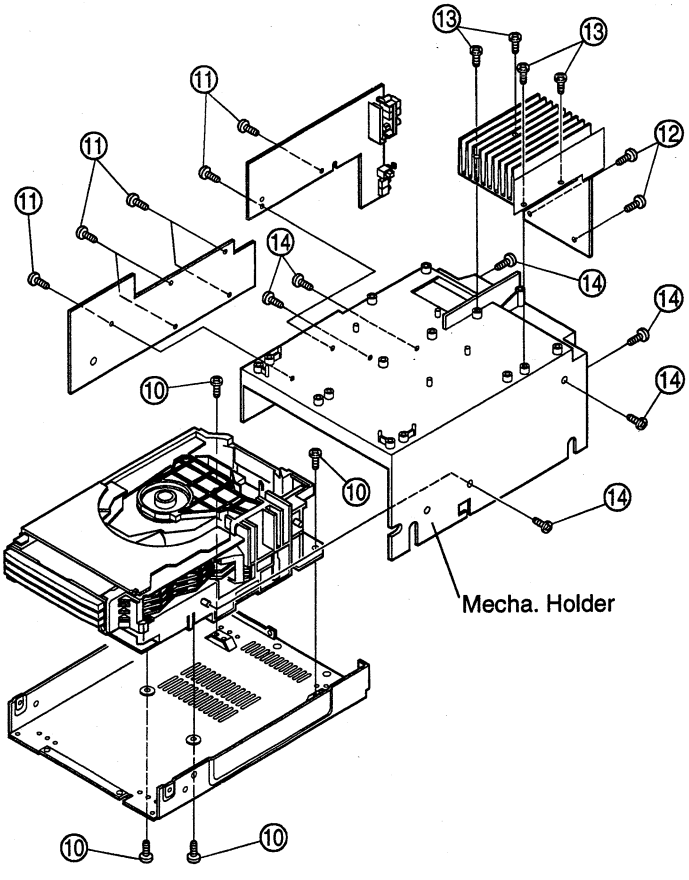
Main P.W.B.

1. Remove 9 screws ⑨ fixing the Main P.W.B.

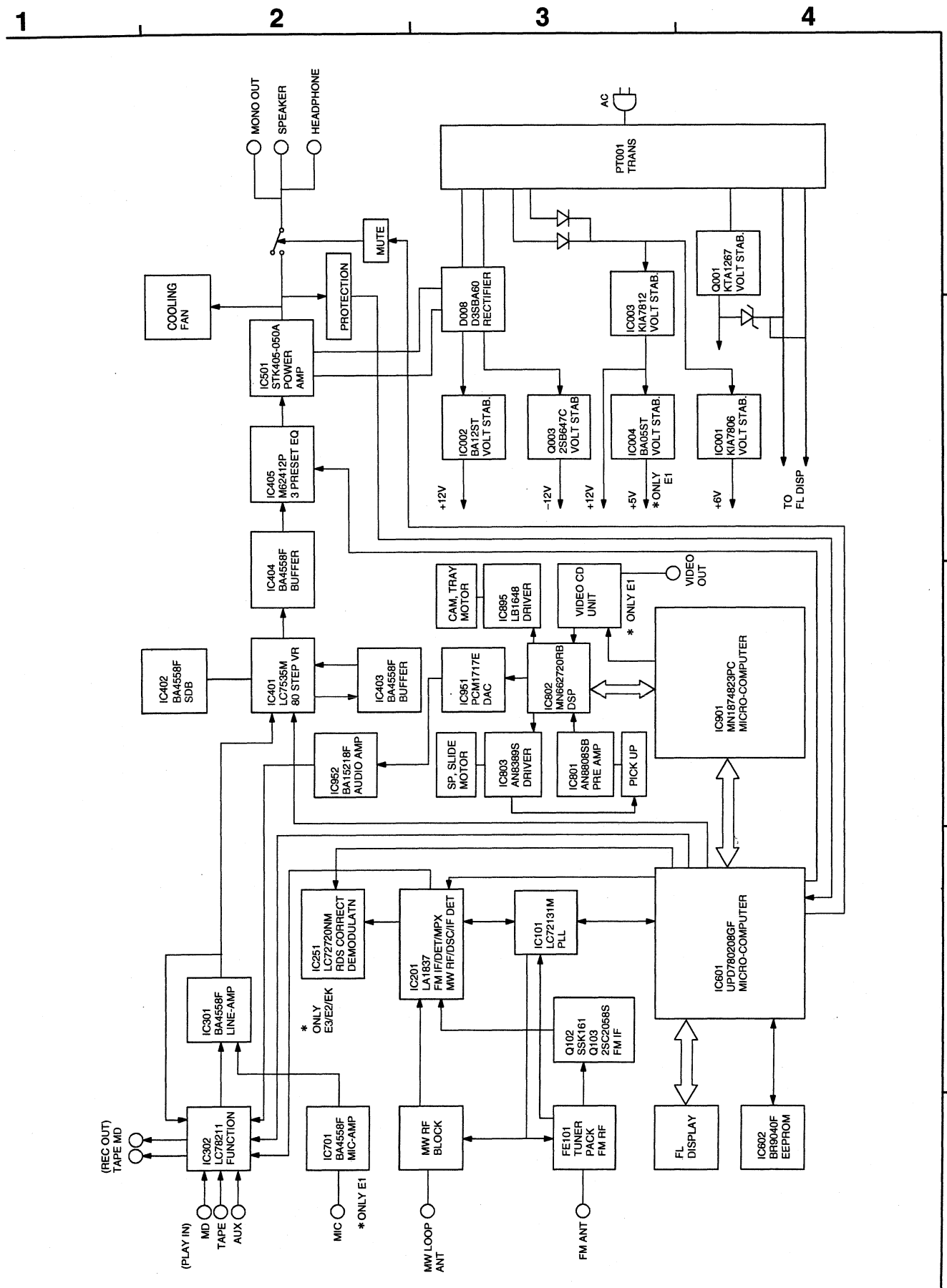


CD Mecha.

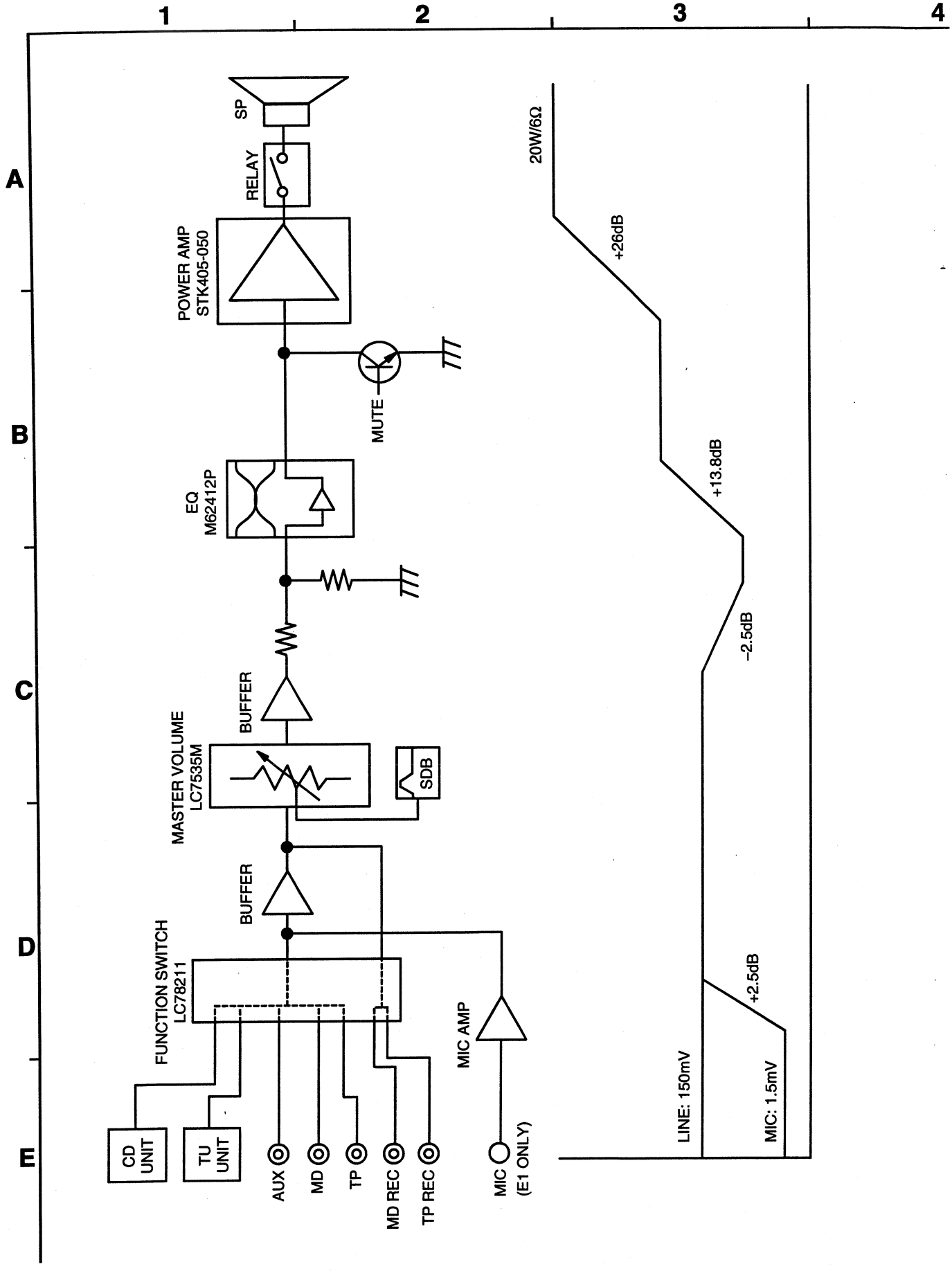
1. Remove 4 screws ⑩.
2. Remove 7 screws ⑪ fixing CD/Tuner P.W.B. at side.
3. Remove 2 screws ⑫ fixing Power P.W.B. and 4 screw ⑬ fixing Heat Sink at the back.
4. Remove 6 screws ⑭ fixing Mecha. Holder.



BLOCK DIAGRAM



LEVEL DIAGRAM



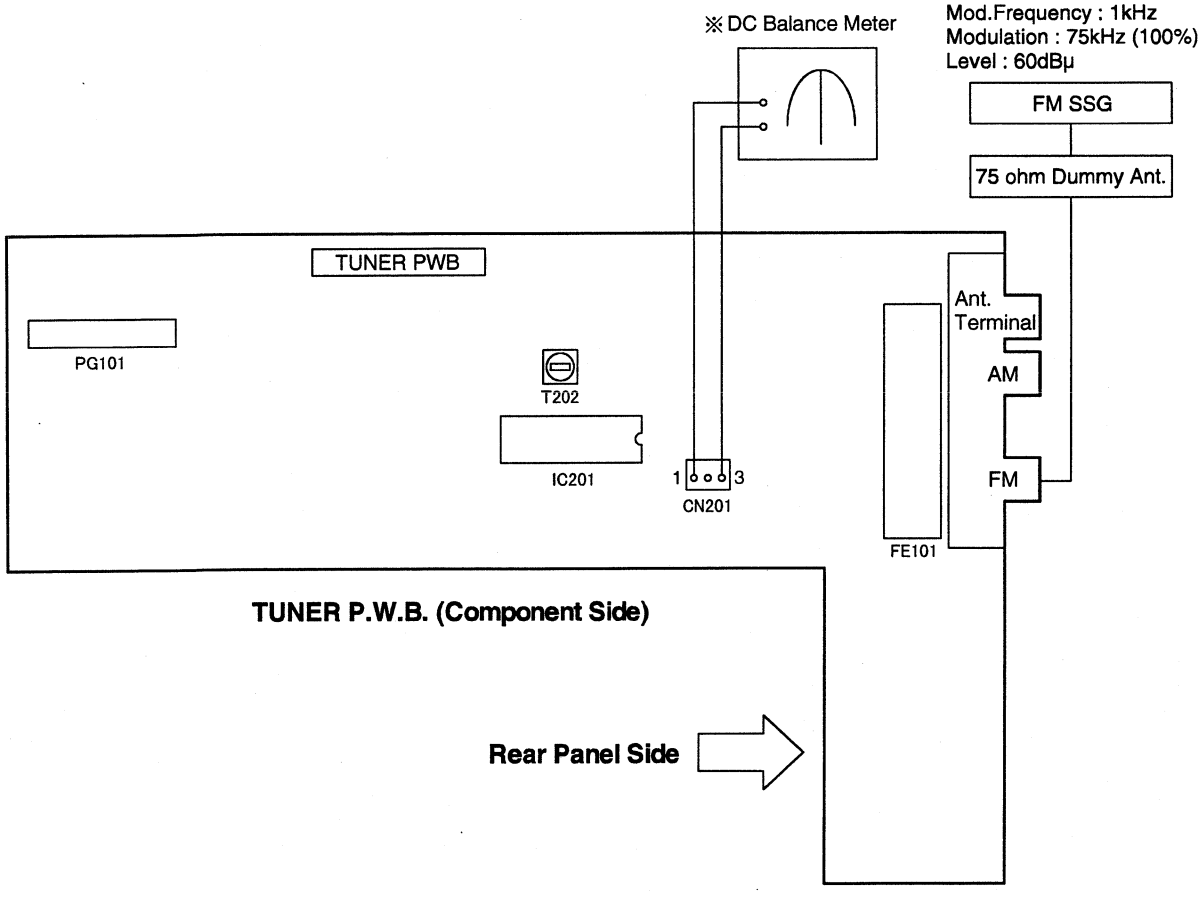
ADJUSTMENT

1. TUNER adjustment (BAND button: FM, MONO/AUTO button: AUTO)

Adjustment item	Tuning point (channel setting)	Input					Output		Adjustment location	Setting value	Notes
		Measuring Instrument	Frequency	Input level	Modulation	Connection location	Measuring instrument	Connection location			
FM DC balance	98.00MHz	FM S.G.	98.00MHz	60dBμ	1kHz 75kHz DEV	FM antenna terminal	DC balance ※ meter	⊕ CN201 ⊖ CN201	T202	0±30mV	Perform with monaural modulation signal

※ or Digital volt meter (DC)

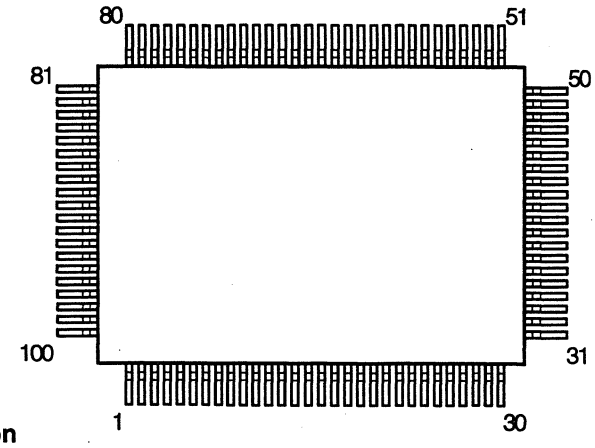
WIRING/ADJUSTING POINTS



SEMICONDUCTORS

● MICROPROCESSOR

μPD780208GF-026-3BA
Except U.S.A./Canada models
μPD780208GF-028-3BA
U.S.A./Canada models
(IC601)



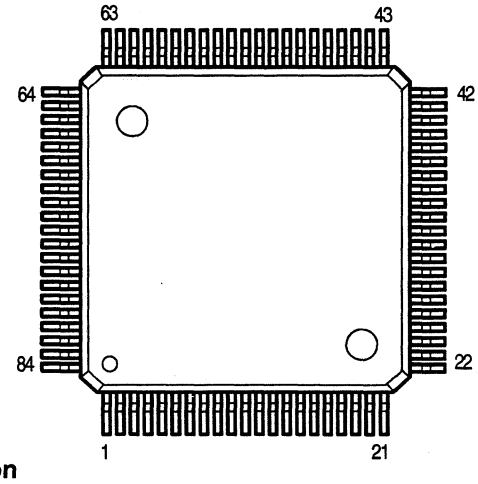
●μPD780208 (IC601) Terminal Function

Pin No.	Port	Symbol	I/O	Det	Res	Ext	Act	INT	MO	Function
1	VDD	VDD	—	—	—	—	—	—	—	Positive power
2	P37	FL_DATA7	I	Lv	Z	Pd	—	L	—	FL display data input (bit 7)
3	P36/BUZ	FL_DATA6	I	Lv	Z	Pd	—	L	—	FL display data input (bit 6)
4	P35/PCL	FL_DATA5	I	Lv	Z	Pd	—	L	—	FL display data input (bit 5)
5	P34/TI2	FL_DATA4	I	Lv	Z	Pd	—	L	—	FL display data input (bit 4)
6	P33/TI1	FL_DATA3	I	Lv	Z	Pd	—	L	—	FL display data input (bit 3)
7	P32/TO2	FL_DATA2	I	Lv	Z	Pd	—	L	—	FL display data input (bit 2)
8	P31/TO1	FL_DATA1	I	Lv	Z	Pd	—	L	—	FL display data input (bit 1)
9	P30/TO0	FL_DATA0	I	Lv	Z	Pd	—	L	—	FL display data input (bit 0)
10	RESET	$\overline{\text{RESET}}$	—	—	—	—	L	—	—	μcom reset input
11	X2	X2	I	—	—	—	—	—	—	X'tal connection for main clock oscillation
12	X1	X1	—	—	—	—	—	—	—	X'tal connection for main clock oscillation
13	IC	IC	—	—	—	—	—	—	—	Internal connection to Vss
14	XT2	XT2	I	—	—	—	—	—	—	X'tal connection for sub-clock oscillation, not used: NC
15	P04/XT1	P04/XT1	—	—	Z	—	—	—	—	X'tal connection for sub-clock oscillation, not used: Connect to Vss or VDD
16	VDD	VDD	I	—	—	—	—	—	—	Positive power
17	P27/SCK0	DB_CLK	O	—	Z	—	—	H	—	DENON BUS clock output
18	P26/SO0/SB1	DB_TXD	O	—	Z	—	—	H	—	DENON BUS data output
19	P25/SI0/SB0	DB_RXD	I	Ed	Z	—	—	—	—	DENON BUS data input
20	P24/BUSY	$\overline{\text{RDSRST}}$	O	—	Z	—	L	H	—	RDS IC reset output
21	P23/SIB	DATA_CE	O	—	Z	—	H	L	—	Data bus (for PLL, VOL, RDS IC) chip enable output
22	P22/SCK1	DATA_CLK	O	—	Z	—	—	H	—	Data bus (for PLL, VOL, RDS IC) clock output
23	P21/SO1	DATA_TXD	O	—	Z	—	—	H	—	Data bus (for PLL, VOL, RDS IC) data output
24	P20/SI1	DATA_RXD	I	Ed	Z	—	—	—	—	Data bus (for PLL, VOL, RDS IC) data input
25	AVSS	AVSS	—	—	—	—	—	—	—	A/D converter GND potential
26	P17/AN7	FL_REQ	I	Lv	Z	—	L	—	—	FL display request input
27	P16/AN6	$\overline{\text{FL\_CE}}$	O	—	Z	—	—	H	—	FL display chip enable output
28	P15/AN5	FL_EN	I	Lv	Z	—	—	—	—	FL display data enable input
29	P14/AN4	WAKEUP	I	Lv	Z	—	H	L	—	Power on request signal from CD
30	P13/AN3	SEL. EEROM	O	—	Z	—	H	L	—	EEPROM chip enable output
31	P12/AN2	F_CD	O	—	Z	—	H	—	—	Function CD output
32	P11/AN1	KEY2	I	A	Z	Pu	—	—	—	Unit operation button input 2
33	P10/AN0	KEY1	I	A	Z	Pu	—	—	—	Unit operation button input 1
34	AVDD	AVDD	—	—	—	—	—	—	—	A/D converter analog power
35	AVref	AVREF	I	—	—	—	—	—	—	A/D converter ref. V input
36	P03/INIP3	PROTECT	I	Ed	Z	Pu	L	—	—	SP terminal DC voltage detect signal input
37	P02/INIP2	$\overline{\text{DB\_RXD}}$	I	Ed	Z	—	L	—	—	DENON BUS data input (interrupt input)
38	P01/INIP1	50/60	I	Ed	Z	—	L	—	—	50/60 Hz AC input
39	P00/INIP0/II	REMCON	I	Ed	Z	—	—	—	—	Remo-con. receive data input
40	Vss	VSS	—	—	—	—	—	—	—	GND potential
41	P74	---	O	—	Z	—	—	—	N	Not used
42	P73	---	O	—	Z	—	—	—	N	Not used

Pin No.	Port	Symbol	I/O	Det	Res	Ext	Act	INT	MO	Function
43	P72	EQ1	O	—	Z	Pu	—	—	N	Graph-equ. IC switching signal output
44	P71	EQ2	O	—	Z	Pu	—	—	N	Graph-equ. IC switching signal output
45	P70	TMUTE	O	—	Z	Pu	L	—	N	Tuner mute output, mute on: Lo
46	VDD	VDD	—	—	—	—	—	—	N	Positive power
47	P127/FIP52	ENC_A	I	Lv	Z	Pu	—	—	N	Rotary encoder input
48	P126/FIP51	ENC_B	I	Lv	Z	Pu	—	—	N	Rotary encoder input
49	P125/FIP50	---	O	—	Z	—	—	—	N	Not used
50	P124/FIP49	---	O	—	Z	—	—	—	N	Not used
51	P123/FIP48	---	O	—	Z	—	—	—	N	Not used
52	P122/FIP47	---	O	—	Z	—	—	—	N	Not used
53	P121/FIP46	SD	I	Lv	Z	Pu	L	—	N	FM/AM tuning signal input, tuned: Lo
54	P120/FIP45	ST IND	I	Lv	Z	Pu	L	—	N	FM stereo demodulation detect input, stereo: Lo
55	P117/FIP44	USA	I	Lv	Z	—	—	—	N	Initial setting input
56	P116/FIP43	EUR	I	Lv	Z	—	—	—	N	Initial setting input
57	P115/FIP42	FREQ	I	Lv	Z	—	—	—	N	Initial setting input
58	P114/FIP41	RDS	I	Lv	Z	—	—	—	N	Initial setting input
59	P113/FIP40	---	O	—	Z	—	—	—	N	Not used
60	P112/FIP39	---	O	—	Z	—	—	—	N	Not used
61	P111/FIP38	---	O	—	Z	—	—	—	N	Not used
62	P110/FIP37	---	O	—	Z	—	—	—	N	Not used
63	P107/FIP36	---	O	—	Z	—	—	—	N	Not used
64	P106/FIP35	---	O	—	Z	—	—	—	N	Not used
65	P105/FIP34	---	O	—	Z	—	—	—	N	Not used
66	P104/FIP33	---	O	—	Z	—	—	—	N	Not used
67	P103/FIP32	V. MUTE	O	—	Z	Pd	H	H	N	Volume mute output, mute: Hi
68	P102/FIP31	POWER	O	—	Z	Pd	L	L	N	Amp circuit power on/off output, on: Lo
69	P101/FIP30	AUTO/MONO	O	—	Z	—	—	—	N	FM AUTO/MONO switching, MONO: Hi
70	P100/FIP29	RMUTE	O	—	Z	Pd	L	L	N	Speaker relay on/off output, on:
71	P97/FIP28	---	O	—	Z	—	—	—	N	Not used
72	P96/FIP27	SEG1	O	—	Z	Pd	—	—	N	Segment output 1
73	P95/FIP26	SEG2	O	—	Z	Pd	—	—	N	Segment output 2
74	P94/FIP25	SEG3	O	—	Z	Pd	—	—	N	Segment output 3
75	P93/FIP24	SEG4	O	—	Z	Pd	—	—	N	Segment output 4
76	P92/FIP23	SEG5	O	—	Z	Pd	—	—	N	Segment output 5
77	P91/FIP22	SEG6	O	—	Z	Pd	—	—	N	Segment output 6
78	P90/FIP21	SEG7	O	—	Z	Pd	—	—	N	Segment output 7
79	VLOAD	VLOAD	—	—	—	—	—	—	N	FL driver pull-down resistor connection (−30V)
80	P87/FIP20	SEG8	O	—	Z	Pd	—	—	—	Segment output 8
81	P86/FIP19	SEG9	O	—	Z	Pd	—	—	N	Segment output 9
82	P85/FIP18	SEG10	O	—	Z	Pd	—	—	N	Segment output 10
83	P84/FIP17	SEG11	O	—	Z	Pd	—	—	N	Segment output 11
84	P83/FIP16	SEG12	O	—	Z	Pd	—	—	N	Segment output 12
85	P82/FIP15	SEG13	O	—	Z	Pd	—	—	N	Segment output 13
86	P81/FIP14	SEG14	O	—	Z	Pd	—	—	N	Segment output 14
87	P80/FIP13	SEG15	O	—	Z	Pd	—	—	N	Segment output 15
88	FIP12	SEG16	O	—	Z	Pd	—	—	—	Segment output 16
89	FIP11	DIG12	O	—	Z	Pd	—	—	—	Digit output 12
90	FIP10	DIG11	O	—	Z	Pd	—	—	—	Digit output 11
91	FIP9	DIG10	O	—	Z	Pd	—	—	—	Digit output 10
92	FIP8	DIG9	O	—	Z	Pd	—	—	—	Digit output 9
93	FIP7	DIG8	O	—	Z	Pd	—	—	—	Digit output 8
94	FIP6	DIG7	O	—	Z	Pd	—	—	—	Digit output 7
95	FIP5	DIG6	O	—	Z	Pd	—	—	—	Digit output 6
96	FIP4	DIG5	O	—	Z	Pd	—	—	—	Digit output 5
97	FIP3	DIG4	O	—	Z	Pd	—	—	—	Digit output 4
98	FIP2	DIG3	O	—	Z	Pd	—	—	—	Digit output 3
99	FIP1	DIG2	O	—	Z	Pd	—	—	—	Digit output 2
100	FIP0	DIG1	O	—	Z	Pd	—	—	—	Digit output 1

Det / Lv: Level detect, Ed: Edge detect, A: Analog volt detect
Res / Z: Hi-impedance at reset
Ext / Pd: Pull-down, Pu: Pull-up
Mo / Y: with mask option, N: without mask option

MN1874823PC
(IC901)

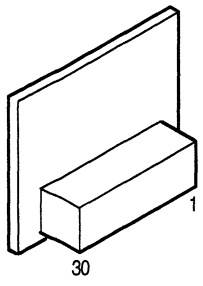


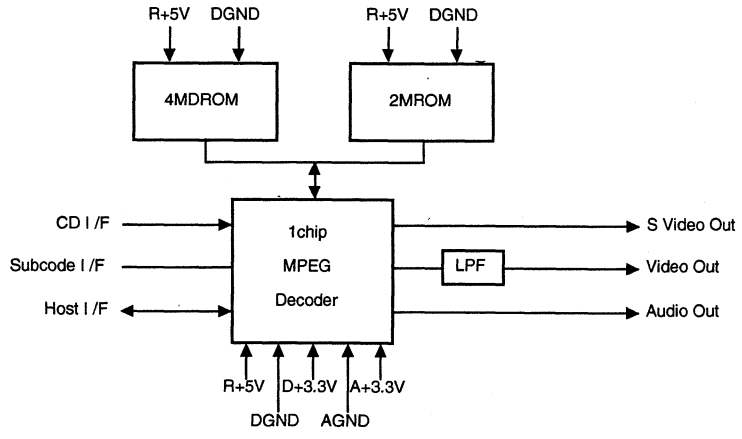
●MN1874823PC Terminal Function

Pin No.	Symbol	Port	I/O	Log	INT	Typ	Function
1	KEY1	P21/ADIN1	I	A/D	Hi-z	—	Not used: Unit A/D key input
2	KEY0	P20/ADIN0	I	A/D	Hi-z	—	Not used: Unit A/D key input
3	VDD	VREFH	I	—	—	—	Ref. V for analog input (LOW)
4	+5V	VDD	—	—	—	—	µcom power voltage
5	8Mhz	OSC2	O	—	—	—	µcom system clock output
6	8Mhz	OSC1	I	—	—	—	µcom system clock input
7	GND	VSS	—	—	—	—	µcom GND
8	GND	XI	I	—	—	—	Not used: µcom sub-clock input
9	---	XO	O	—	—	—	Not used: µcom sub-clock output
10	GND	CM	I	—	—	—	µcom chip mode select input
11	HCK	P93/SBT2	O		Hi-z	C	VCD module clock output, CD: Ext. PU
12	HDIO	P92/SBI2	I		Hi-z	—	VCD module data input, CD: Ext. UP
13	HDIO	P91/SBO2	O		Hi-z	C	VCD module data output
14	HSEL	P90/BUZ	O		Hi-z	C	VCD module serial communication select output
15	GND	VPP	—	—	—	—	VPP: connect to GND
16	NC	P67/SEG15	O		Hi-z	P	Not used: Lo output at NC
17	NC	P66/SEG14	O		Hi-z	P	Not used: Lo output at NC
18	NC	P65/SEG13	O		Hi-z	P	Not used: Lo output at NC
19	NC	P64/SEG12	O		Hi-z	P	Not used: Lo output at NC
20	NC	P63/SEG11	O		Hi-z	P	Not used: Lo output at NC
21	NC	P62/SEG10	O		Hi-z	P	Not used: Lo output at NC
22	ENOUT	P61/SEG9	O		Hi-z	P	FL display data enable output
23	RQOUT	P60/SEG8	O		Hi-z	P	FL display request output
24	DATA7	P57/SEG7	O		L	P	FL display data output (bit 7)
25	DATA6	P56/SEG6	O		L	P	FL display data output (bit 6)
26	DATA5	P55/SEG5	O		L	P	FL display data output (bit 5)
27	DATA4	P54/SEG4	O		L	P	FL display data output (bit 4)
28	DATA3	P53/SEG3	O		L	P	FL display data output (bit 3)
29	DATA2	P52/SEG2	O		L	P	FL display data output (bit 2)
30	DATA1	P51/SEG1	O		L	P	FL display data output (bit 1)
31	DATA0	P50/SEG0	O		L	P	FL display data output (bit 0)
32	NC	P77/DGT0	O		L	P	Not used: Lo output at NC
33	POWER	P76/DGT1	O		L	P	WAKEUP output for CD, on request: Hi
34	LED3G	P75/DGT2	O		L	P	Disc 3 green LED output, light: Hi
35	LED3R	P74/DGT3	O		L	P	Disc 3 red LED output, light: Hi
36	LED2G	P73/DGT4	O		L	P	Disc 2 green LED output, light: Hi
37	LED2R	P72/DGT5	O		L	P	Disc 2 red LED output, light: Hi
38	LED1G	P71/DGT6	O		L	P	Disc 1 green LED output, light: Hi
39	LED1R	P70/DGT7	O		L	P	Disc 1 red LED output, light: Hi
40	TRAY–	P87/DGT8	O		Hi-z	P	Changer mecha. cam motor– (X2M)/CD mecha. open (X2S)
41	TRAY+	P86/DGT9	O		Hi-z	P	Changer mecha. cam motor+ (X2M)/CD mecha. close (X2S)
42	CAM–	P85/DGT10	O		Hi-z	P	Changer mecha. cam motor– (X2M)/Not used NC (X2S)

Pin No.	Symbol	Port	I/O	Log	INT	Typ	Function
43	CAM+	P84/DGT11	O		Hi-z	P	Changer mecha. cam motor+ (X2M)/Not used NC (X2S)
44	CDPWR	P83/DGT12	O		Hi-z	P	CD power control output, power on: Hi
45	DRVMT	P82/DGT13	O		Hi-z	P	Driver mute output, mute: Lo
46	DMUTE	P81/DGT14	O		Hi-z	P	CD-DSP DMUTE, mute: Hi/Not used NC (X2S)
47	AMUTE	P80/DGT15	O		Hi-z	P	Audio mute output, mute: Hi
48	---	SYNC	O	—	Hi-z	C	Not used: NC
49	TLOCK	P17/PWM2	I	—	Hi-z		CD-DSP TLOCK input (X2M)/Not used ext. DW (X2S)
50	FLOCK	P16/PWM1	I	—	Hi-z		CD-DSP FLOCK input (X2M)/Not used ext. SW (X2S)
51	SENSE	P15/RMOUT	I	—	Hi-z		CD-DSP SENSE input (X2M)/Not used ext. DW (X2S)
52	MCLK	P14/TCO35	O	—	Hi-z	C	CD-DSP serial communication clock output
53	STAT	P13/TCIO4	I	—	Hi-z		CD-DSP serial communication status input
54	MDATA	P12/TCI3	O	—	Hi-z	C	CD-DSP serial communication data output
55	MLD	P11/TCO1	O	—	Hi-z	C	CD-DSP serial communication load output
56	SRST	P10/TCIO0	O		Hi-z	C	CD-DSP reset output, reset: Hi
57	RESET	P07/RST	I		Hi-z		µcom reset input, reset: Lo
58	VRST	P06/PSBT0	O		Hi-z	C	VCD module reset output, reset: Hi
59	SQCK	P05/SBT1	O	—	Hi-z	C	Sub Q code clock output
60	SUBQ	P04/SBI1	I	—	Hi-z		Sub Q code data input
61	NTSC/PAL	P03/SBO1	I	—	Hi-z		NTSC/PAL switching input, NTSC: Lo
62	BUSCLK	P02/SBT0	I	—	Hi-z		DENON BUS communication clock input
63	BUSI	P01/SBI0	I	—	Hi-z		DENON BUS communication data input
64	BUSO	P00/SBO0	O	—	Hi-z	C	DENON BUS communication data output
65	TRYSW4	P47	I	—	Hi-z		Changer mecha. tray SW4 (X2M)/Not used ext. DW (X2S)
66	TRYSW3	P46	I	—	Hi-z		Changer mecha. tray SW3 (X2M)/Not used ext. DW (X2S)
67	TRYSW2	P45	I	—	Hi-z		Changer mecha. tray SW2 (X2M)/CD mecha. close SW (X2S)
68	TRYSW1	P44	I	—	Hi-z		Changer mecha. tray SW1 (X2M)/CD mecha. open SW (X2S)
69	CANSW4	P43	I	—	Hi-z		Changer mecha. cam SW4 (X2M)/Not used ext. DW (X2S)
70	CAMSW3	P42	I	—	Hi-z		Changer mecha. cam SW3 (X2M)/Not used ext. DW (X2S)
71	CAMSW2	P41	I	—	Hi-z		Changer mecha. cam SW2 (X2M)/Not used ext. DW (X2S)
72	CAMSW1	P40	I	—	Hi-z		Changer mecha. cam SW1 (X2M)/Not used ext. DW (X2S)
73	HRDY	P34/PWM0	I	—	Hi-z		VCD module ready input, CD: Ext. up
74	PWRSW	P33/IRQ3	I		Hi-z		Power on SW input, SW push: Lo
75	HINT	P32/IRQ2	I	—	Hi-z		VCD module interrupt input, CD: Ext. up
76	CE	P31/IRQ1	I	—	Hi-z		FL display CE interrupt input
77	BUSINT	P30/IRQ0	I	—	Hi-z		DENON BUS communication interrupt input
78	GND	VREFL	I	—	Hi-z		Ref. V for analog input (LOW)
79	CD/VCD	P27/ADIN7	I	—	Hi-z		CD/VCD switching input, CD: Lo
80	LMTSW	P26/ADIN6	I		Hi-z		Pickup inner-most detect input, inner-most: Lo at on
81	F.CD	P25/ADIN5	I		Hi-z		CD function input, CD: Hi
82	KEY4	P24/ADIN4	I	A/D	Hi-z		Not used: Unit A/D key input
83	KEY3	P23/ADIN3	I	A/D	Hi-z		Not used: Unit A/D key input
84	KEY2	P22/ADIN2	I	A/D	Hi-z		Not used: Unit A/D key input

RD-DVK023-K (IC881)



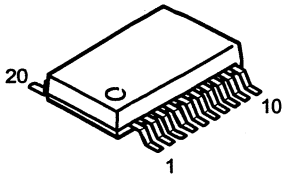


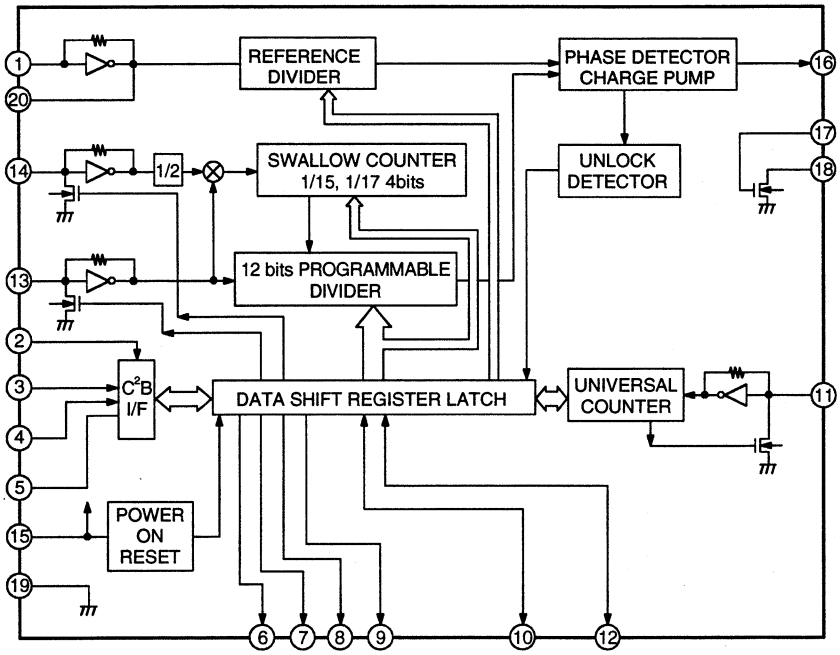
●RD-DVK023-K Terminal Function

Pin No.	Terminal	I/O	Function
1	A+3.3V		+3.3V power supply for analog video
2	CVOUT	O	Composite video output
3	COUT	O	C video output (s)
4	YOUT	O	Y video output (s)
5	VGND		Analog video ground
6	VGND		Analog video ground
7	R+5V		Digital +5V power supply
8	D+3.3V		Digital +3.3V power supply
9	D+3.3V		Digital +3.3V power supply
10	DGND		Digital ground
11	DGND		Digital ground
12	XCK	I	Audio external frequency clock
13	EMPH	O	Audio emphasis output
14	DILRCK	O	Audio left right clock
15	HRDY	O	Host data ready
16	DISCK	O	Audio bit clock
17	DIDATA	O	Audio data serial bus
18	HINT	O	Host interrupt
19	SBCK	O	Subcode clock for CD-G
20	VRST	I	Hardware reset
21	HCK	I	Host clock
22	HDIO	I/O	Host serial data bus
23	CDSCK	I	CD bit clock
24	CDDATA	I	CD data
25	CDLRCK	I	CD left right clock
26	IPFLG	I	CD data error flag (C2P0)
27	HSEL	I	Host address/ data select
28	SUBC	I	Subcode data for CD-G
29	CLDCK	I	Subcode frame sync for CD-G
30	BLKCK	I	Subcode block for CD-G

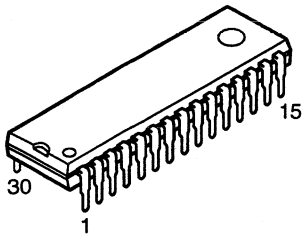
●IC's

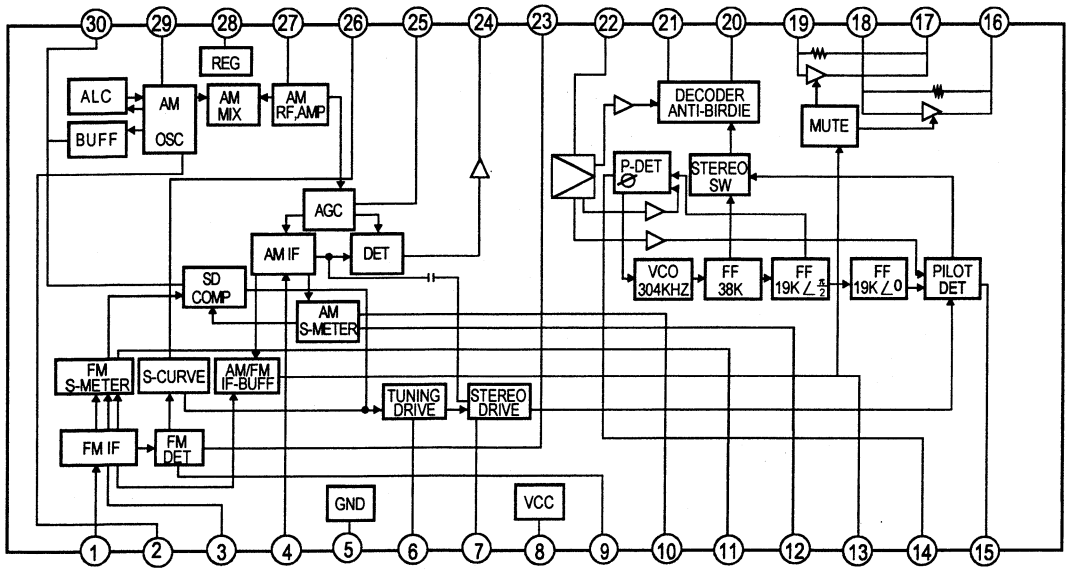
LC72131M (IC101)



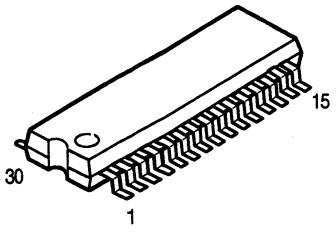


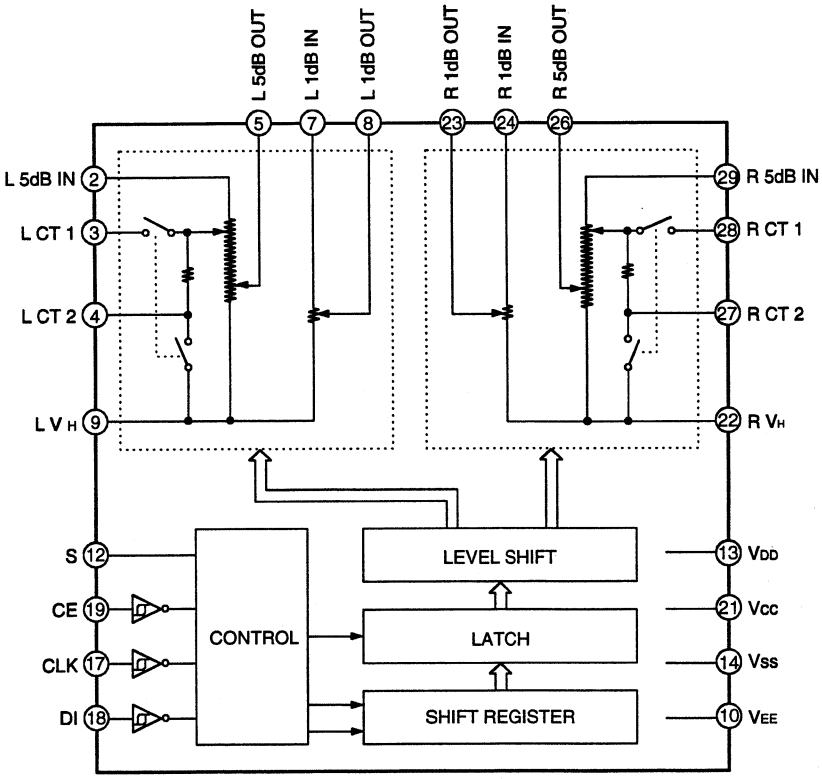
LA1837 (IC201)





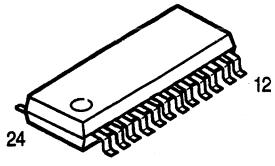
LC7535M (IC401)

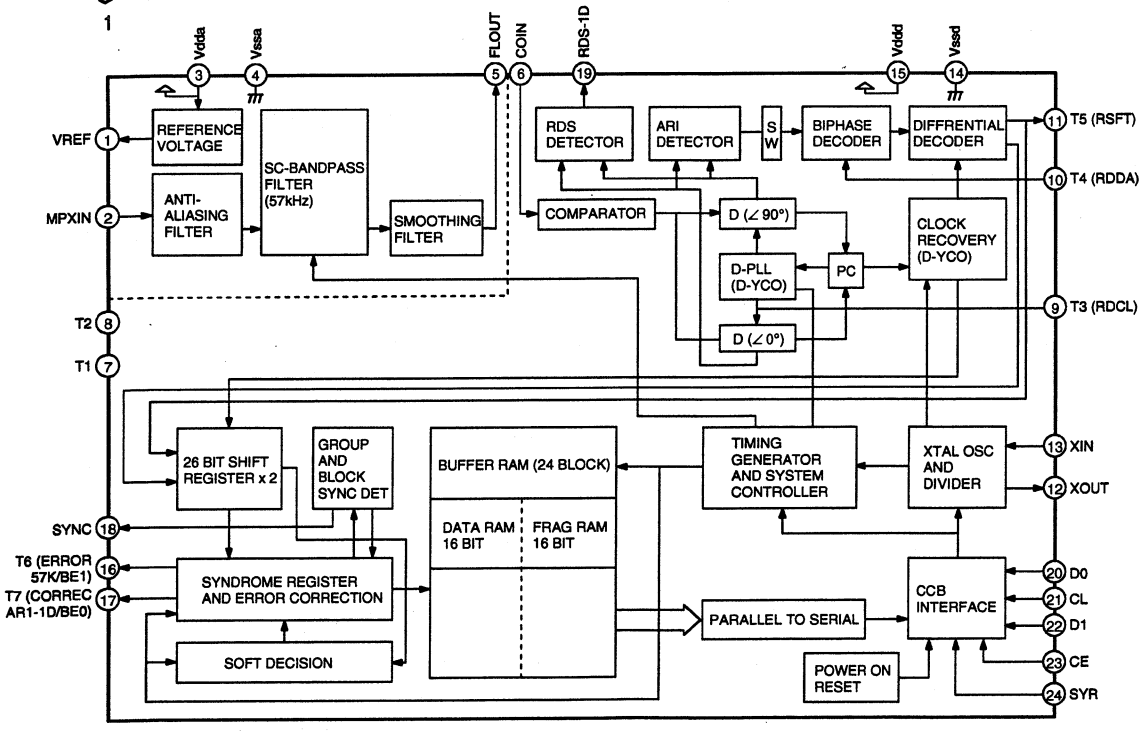




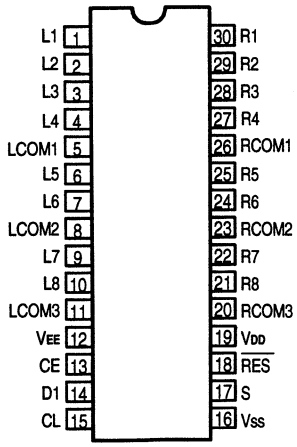
Note: (1) (6) (11) (15) (16) (20) (25) (30): NC

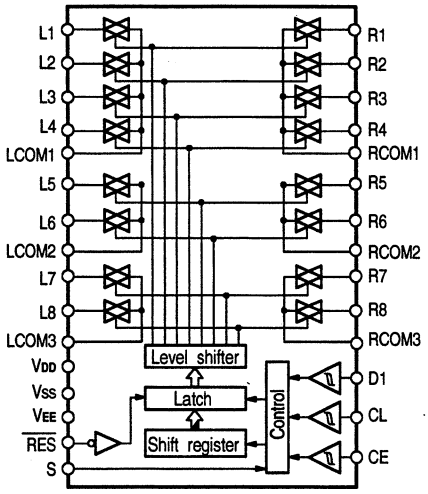
LC72720NM (IC251)



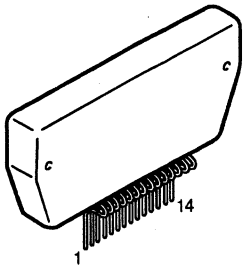


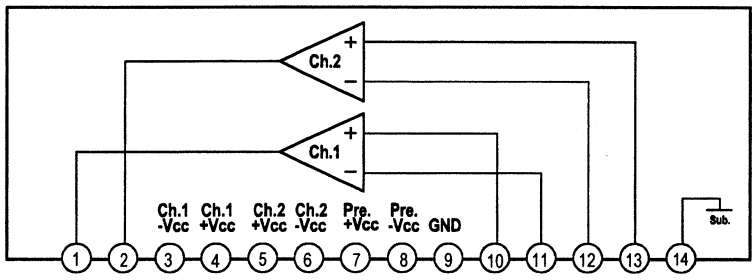
LC78211 (IC302)



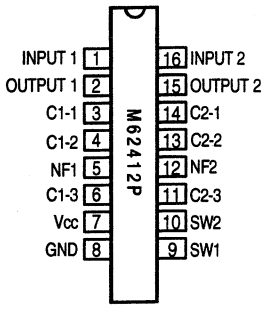


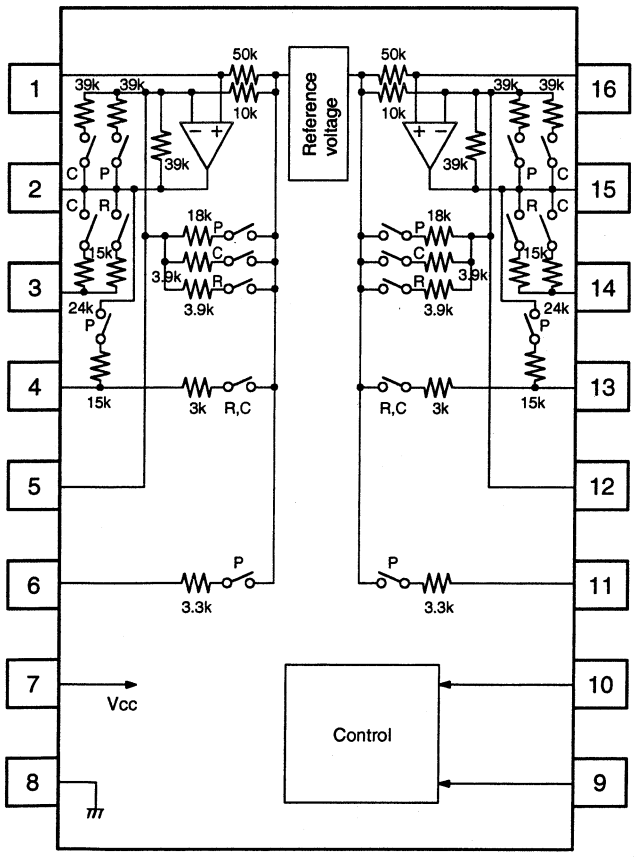
STK405-050A (IC501)



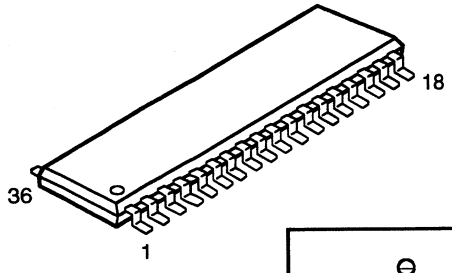


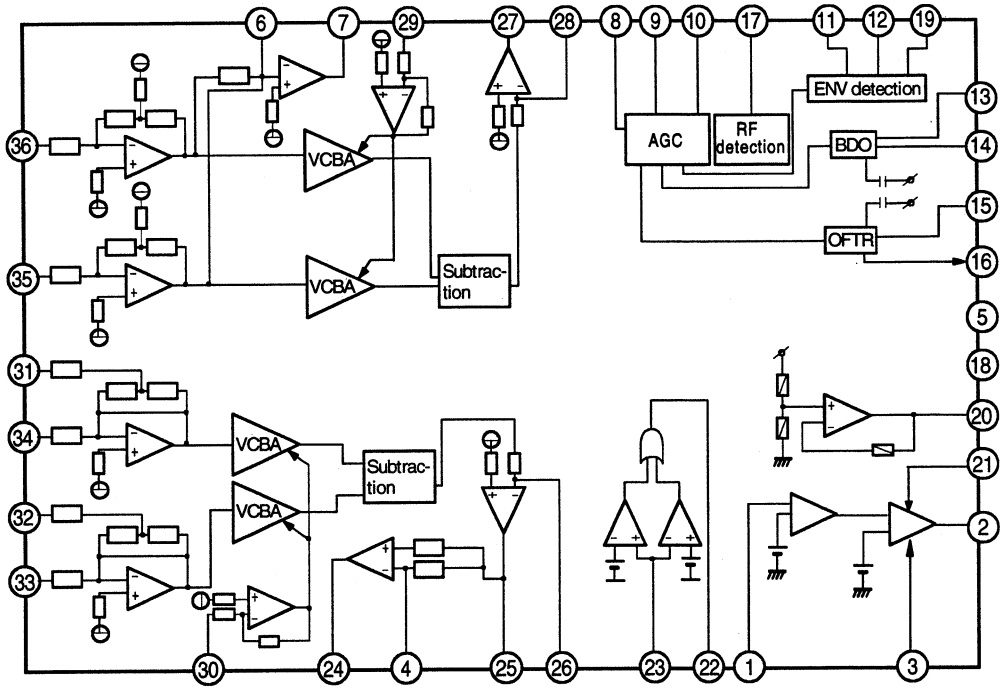
M62412P (IC405)



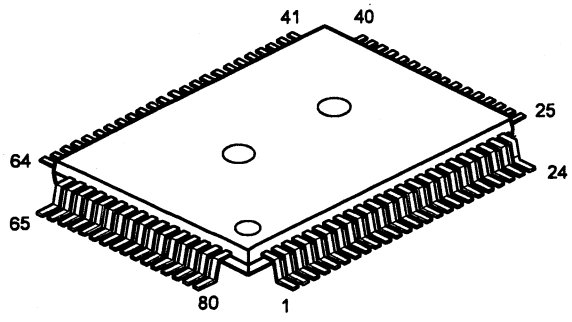


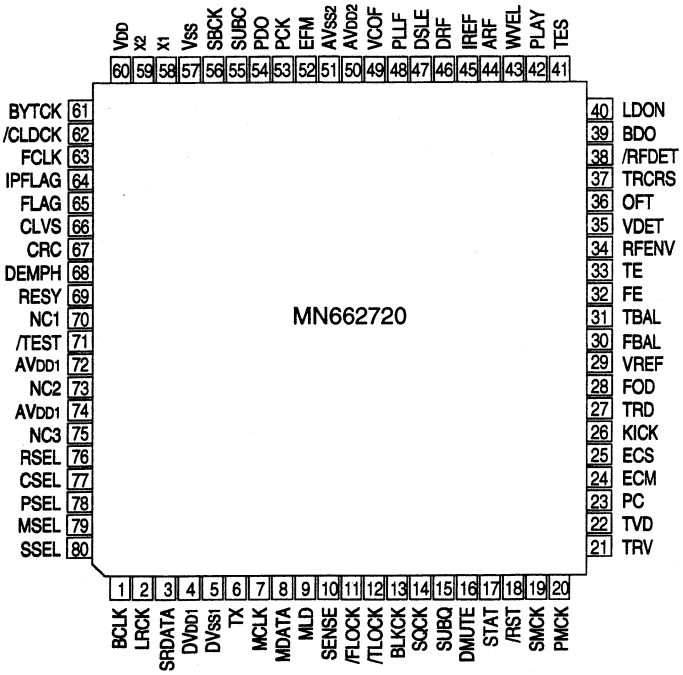
AN8808SB (IC801)



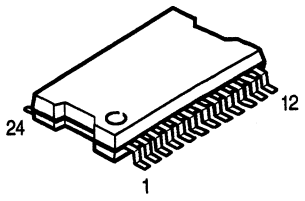


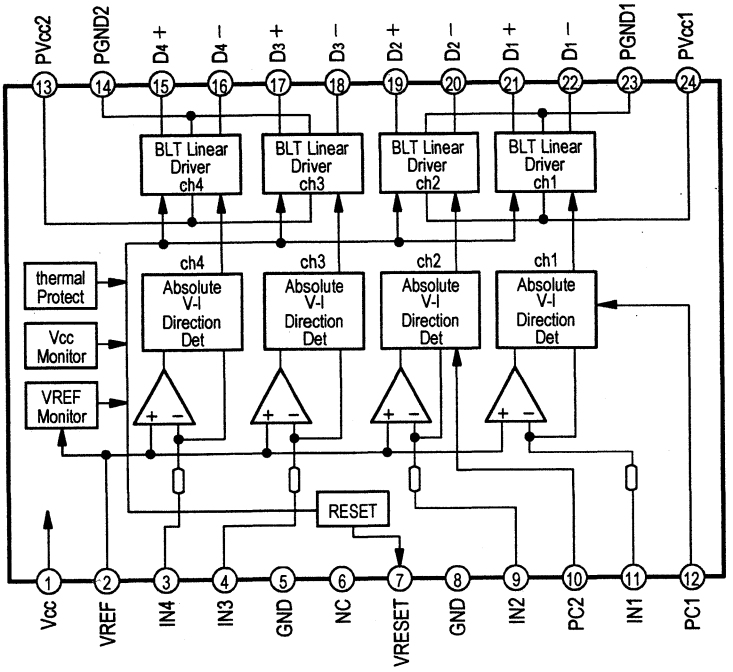
MN662720RB (IC802)



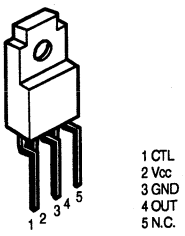


AN8389S (IC803)

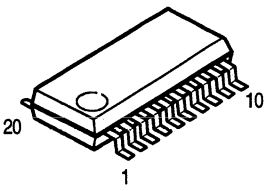


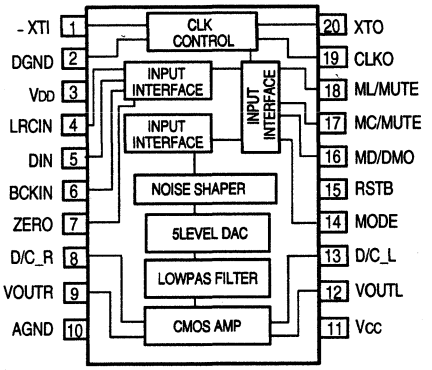


BA05ST-V5 (IC004)
BA12ST-V5 (IC002)

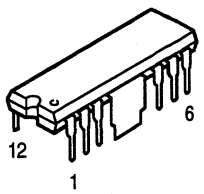


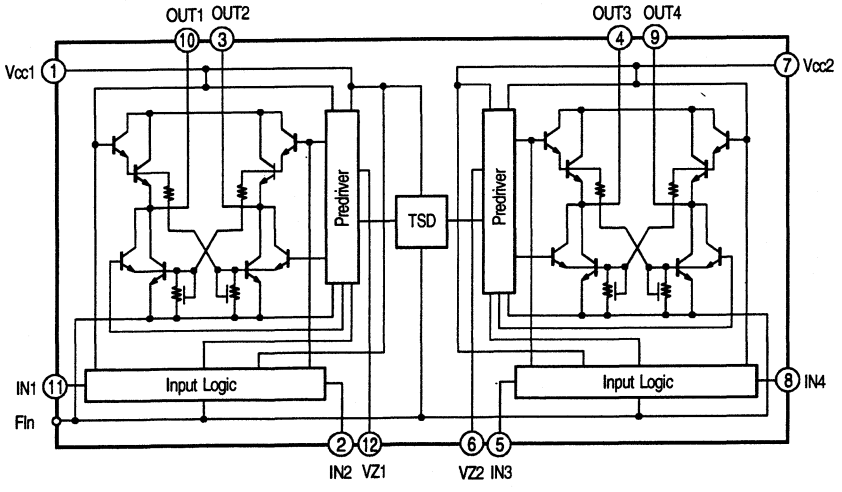
PCM1717E (IC951)



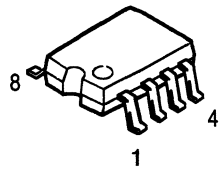


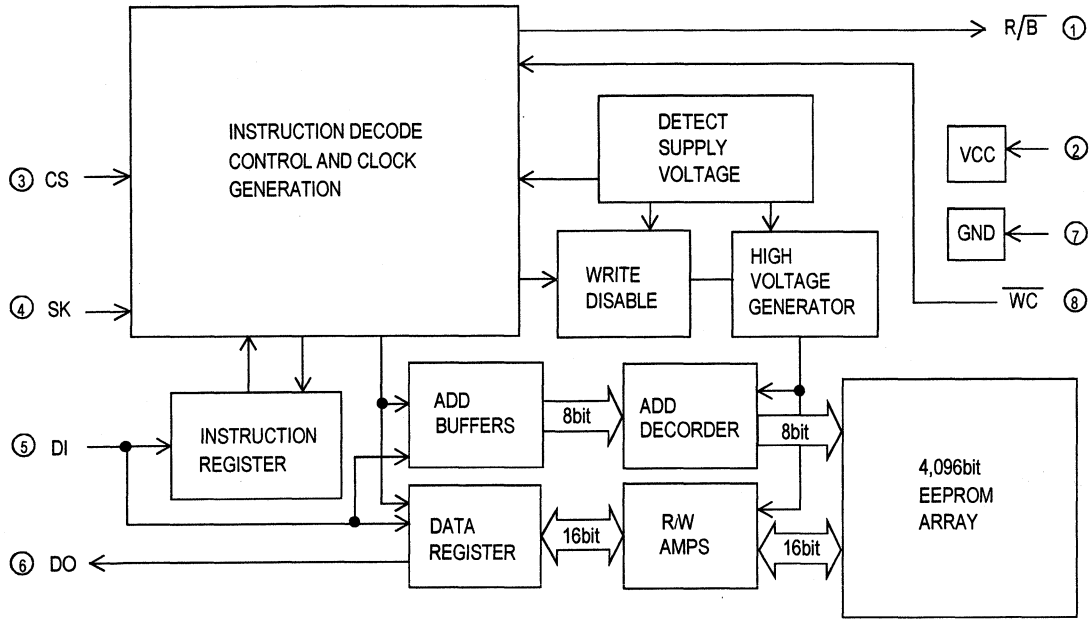
LB1648 (IC895)



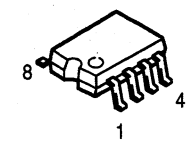


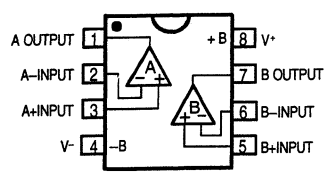
BR9040F (IC602)



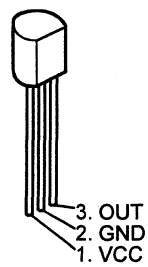


BA4558F (IC301, 402, 403, 404, 701)
BA15218F (IC952)

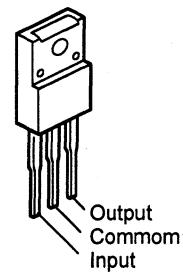




KIA7045P (IC603)

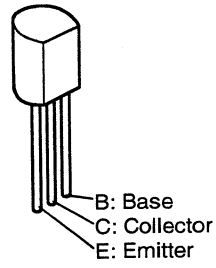


KIA7806PI (IC001)
KIA7812PI (IC003)
KIA7809PI (IC202)

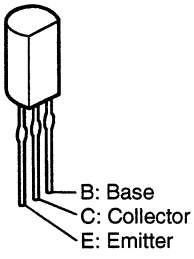


● TRANSISTORS

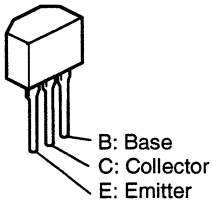
2SA844 (E)



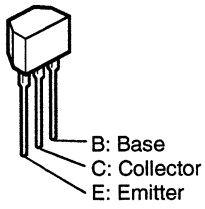
2SB647 (C)
HIT5609C
HIT5610C



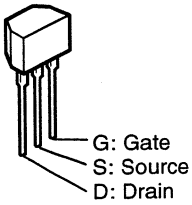
KTA1267



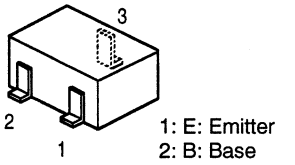
2SA933 (S)
2SC2058S(Q)
2SD1468S



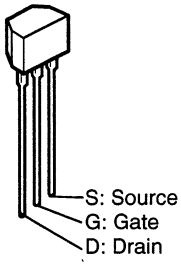
2SK161



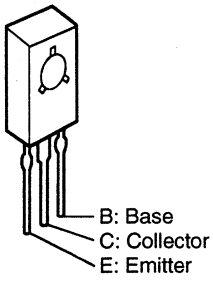
2SA1037K (S)
2SC2412K (S)



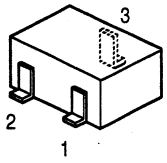
2SK365 (BL/GR)



2SD882 (Q/P)

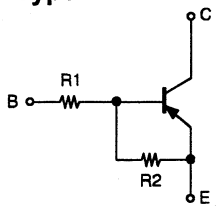


DTA114EK
DTC114EK
DTC124EK
DTA144EK
DTC144EK
DTC323TK



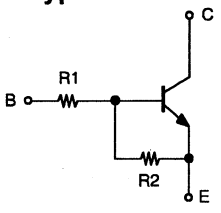
1: GND / Emitter
2: IN / Base
3: OUT / Collector

PNP Type



	R1	R2
DTA114EK	10 kohm	10 kohm
DTA144EK	47 kohm	47 kohm

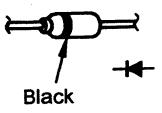
NPN Type



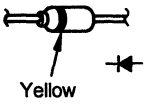
	R1	R2
DTC144EK	47 kohm	47 kohm
DTC323TK	2.2 kohm	—
DTC114EK	10 kohm	10 kohm
DTC124EK	22 kohm	22 kohm

● DIODES (including LED)

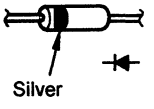
1N4531



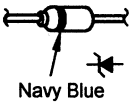
1SS133



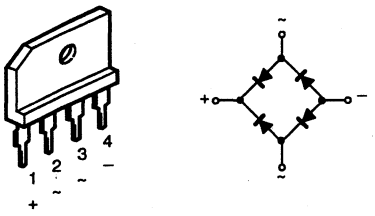
1N4002



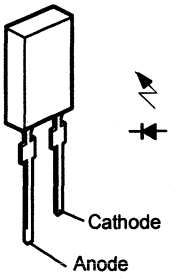
HZ5B-2
MTZ-J12C
MTZ-J27A
MTZ-J5.1C
MTZ-J6.2A
MTZ-J6.8A
MTZ-J8.2B
MTZ-J3.9B



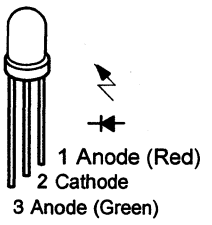
D3SBA60



LH5230/P1 (Red)

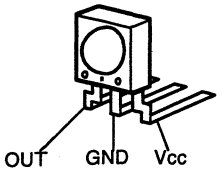


SRR-505MVW



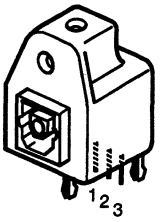
● IR SENSOR

RPM6938-SV4 (IR701)

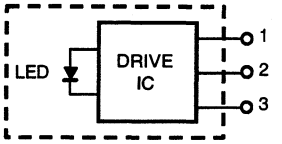


● OPTICAL OUTPUT

GP1F32T (IC804)

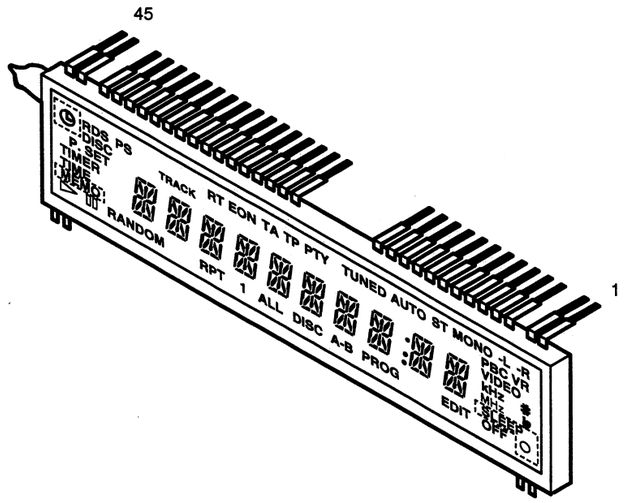


1 Vin
2 Vcc
3 GND



LED : Ga Al As
DRIVE IC : Silicon

● FL DISPLAY SVA-12MM16 (FL701)



Pin Connection

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Connection	F1	F1	NP	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	NX	NX	NX	NX

Pin No.	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Connection	NX	NX	NX	NX	NX	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F2	F2

NOTE
1) F1,F2 ..... Filament
2) NP ..... No pin
3) NX .....No ext. pin
4) DL ..... Datum line
5) 1G~12G ..... Grid
6) Visual field: upper 39°, lower 17° min.

PRINTED WIRING BOARD

MAIN / TUNER P.W.B. UNIT

MONO PWB

SP PWB

MAIN PWB

TUNER PWB

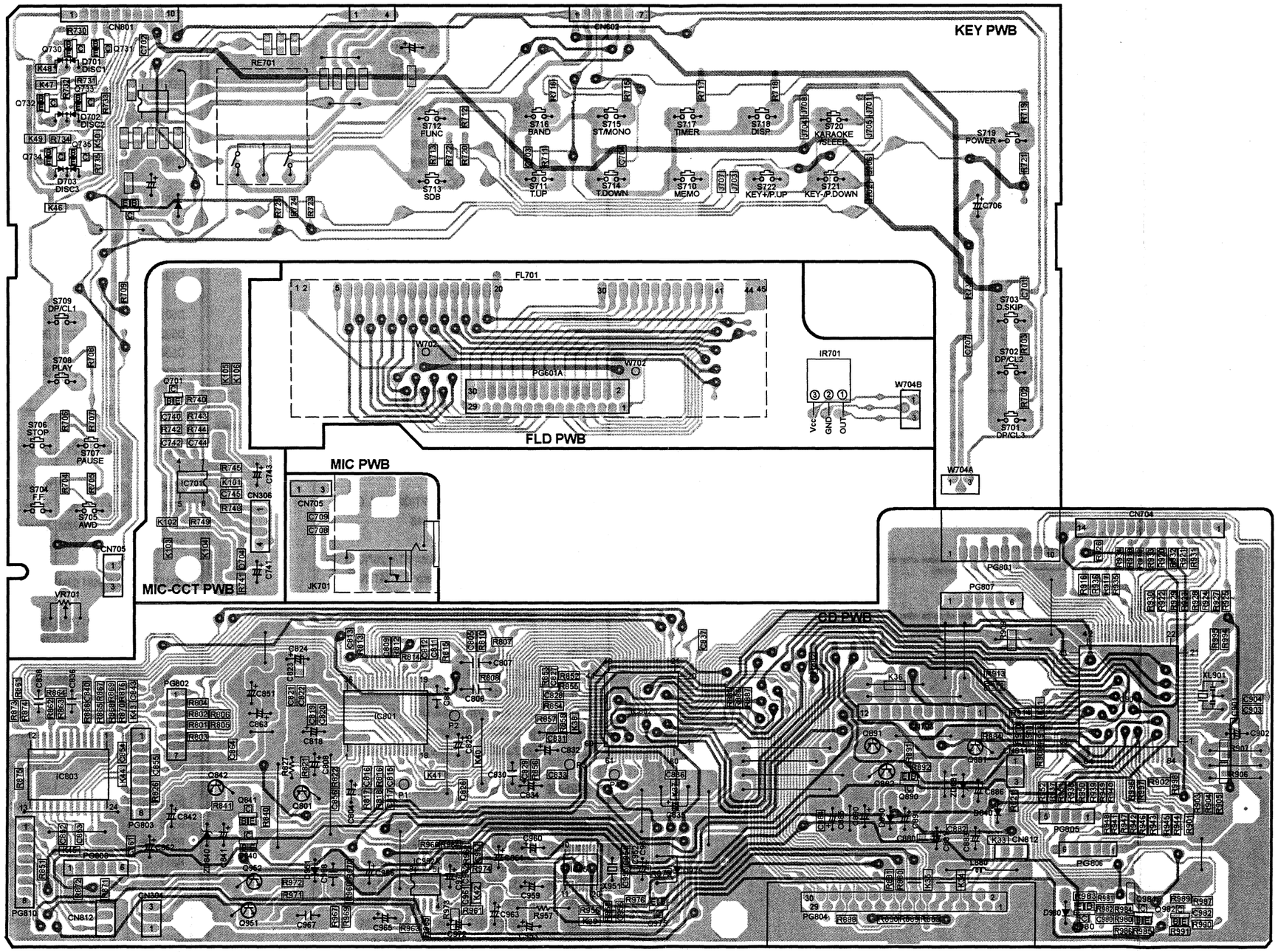
H /P PWB

MOTOR PWB

POWER PWB

PRINTED WIRING BOARD

CD / DISPLAY P.W.B. UNIT



NOTE FOR PARTS LIST

- Part indicated with the mark "⊙" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:
Parts marked with this symbol ⚠▒ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

● Resistors

Ex.: RN (Type) 14K (Shape and performance) 2E (Power) 182 (Resistance) G (Allowable error) FR (Others)

RD : Carbon RC : Composition RS : Metal oxide film RW : Winding RN : Metal film RK : Metal mixture	2B : 1/8W 2E : 1/4W 2H : 1/2W 3A : 1W 3D : 2W 3F : 3W 3H : 5W	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%	P : Pulse-resistant type NL : Low noise type NB : Non-burning type FR : Fuse-resistor F : Lead wire forming

✻ Resistance

1 8 2 ⇒ 1800 ohm = 1.8 kohm
Indicates number of zeros after effective number.
2-digit effective number.
• Units: ohm

1 R 2 ⇒ 1.2 ohm
1-digit effective number.
2-digit effective number, decimal point indicated by R.
• Units: ohm

● Capacitors

Ex.: CE (Type) 04W (Shape and performance) 1H (Dielectric strength) 2R2 (Capacity) M (Allowable error) BP (Others)

CE : Aluminum foil electrolytic CA : Aluminum solid electrolytic CS : Tantalum electrolytic CQ : Film CK : Ceramic CC : Ceramic CP : Oil CM : Mica CF : Metallized CH : Metallized	0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1V : 35V 1H : 50V 2A : 100V 2B : 125V 2C : 160V 2D : 200V 2E : 250V 2H : 500V 2J : 630V	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% −20% P : +100% −0% C : ±0.25pF D : ±0.5pF = : Others	HS : High stability type BP : Non-polar type HR : Ripple-resistant type DL : For change and discharge HF : For assuring high frequency U : UL part C : CSA part W : UL-CSA type F : Lead wire forming

✻ Capacity (electrolyte only)

2 2 2 ⇒ 2200μF
Indicates number of zeros after effective number.
2-digit effective number.
• Units: μF.

2 R 2 ⇒ 2.2μF
1-digit effective number.
2-digit effective number, decimal point indicated by R.
• Units: μF.

✻ Capacity (except electrolyte)

2 2 2 ⇒ 2200pF=0.0022μF
(More than 2) — Indicates number of zeros after effective number.
2-digit effective number.
• Units: μF.

2 2 1 ⇒ 220pF
(0 or 1) — Indicates number of zeros after effective number.
2-digit effective number.
• Units: pF.

• When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

PARTS LIST OF P.W.B. UNIT

MAIN P.W.B. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC001	9LC P024 12	IC KIA7806PI	
IC002	9LC P045 13	IC BA12ST-V5	
IC003	9LC P024 16	IC KIA7812PI	
IC004	9LC P058 71	IC BA05ST-V5	Asia model only
IC101	9LC K098 31R	IC LC72131M	
IC201	9LC P045 01	IC LA1837	
IC202	9LC P024 14	IC KIA7809PI	
IC251	9LC K098 41R	IC LC72720NM	Except Asia model
IC301	9L2 3883 01R	IC BA4558F	
IC302	9L2 3016 92W	IC LC78211	
IC401	9LC K098 51R	IC LC7535M	
IC402~404	9L2 3883 01R	IC BA4558F	
IC405	9LC P025 71	IC M62412P	
IC501	9LC P045 22	IC STK405-050A	
IC601	9LC K309 63	IC μPD780208-026-3BA	Except U.S.A./ Canada model
IC601	9LC K309 64	IC μPD780208-028-3BA	U.S.A./Canada models
IC602	9LC K076 11R	IC BR9040F	
IC603	9LC P007 12R	IC KIA7045P	
IC804	269 0098 006	GP1F32T(OPTICAL OUT)	
IC895	9LC P025 41	IC LB1648	
Q001	9LC A006 61R	Transistor KTA1267(GR)	
Q002	9L2 3256 91R	Transistor 2SC2412K	
Q003	9L2 3286 25T	Transistor 2SB647C	
Q004	9LC A006 61R	Transistor KTA1267(GR)	
Q101	9LC A002 91R	Transistor DTA114EK	
Q102	9LC F011 21R	Transistor 2SK161	
Q103	9LC F011 41R	Transistor 2SC2058S(Q)	
Q104	9LC A002 91R	Transistor DTA114EK	
Q105~108	9LC A005 81R	Transistor DTC323TK	
Q109	9L2 3163 61R	Transistor DTC114EK	
Q401,402	9L2 3154 22R	Transistor 2SD1468S	
Q501	9L2 3256 91R	Transistor 2SC2412K	
Q502	9LC A006 91R	Transistor 2SA1037AK	
Q503	9L2 3256 91R	Transistor 2SC2412K	
Q504,505	9LC A005 81R	Transistor DTC323TK	
Q506	9LC F011 31R	Transistor 2SK365	
Q507	9L2 3256 91R	Transistor 2SC2412K	
Q508	9L2 3191 52	Transistor HIT5610C	
Q601	9L2 3166 91R	Transistor DTC144EK	
Q602	9LC A002 92R	Transistor DTA144EK	
Q603	9LC A006 91R	Transistor 2SA1037AK	
Q606	9L2 3163 61R	Transistor DTC114EK	
D001~006	9L2 3980 61T	Diode 1N4002	
D007	9L2 3989 21T	Diode 1N4531/1SS133	
D008	9L2 3420 63	Diode D3SBA60	
D009~011	9L2 3980 61T	Diode 1N4002	
D101	9L2 3989 21T	Diode 1N4531T/1SS133	
D201	9L2 3989 21T	Diode 1N4531T/1SS133	
D301,302	9L2 3989 21T	Diode 1N4531T/1SS133	
D401~404	9L2 3989 21T	Diode 1N4531T/1SS133	
D501	9L2 3989 21T	Diode 1N4531T/1SS133	
D503	9L2 3989 21T	Diode 1N4531T/1SS133	
D504	9LC H019 71	LED LH5230/PI	
D505,506	9L2 3989 21T	Diode 1N4531T/1SS133	
D601,602	9L2 3989 21T	Diode 1N4531T/1SS133	
D981,982	9L2 3989 21T	Diode 1N4531T/1SS133	U.S.A./Canada models
ZD001	9L2 3482 71M	Zener diode MTZJ27A	
ZD002	9L2 3317 95M	Zener diode HZ5B-2	
ZD003	9L2 3481 93M	Zener diode MTZJ12C	
ZD004	9L2 3318 11M	Zener diode HZ7A-1	
ZD401	9L2 3481 03M	Zener diode MTZJ5.1C	
ZD895	9L2 3481 03M	Zener diode MTZJ5.1C	
ZD896	9L2 3481 31M	Zener diode MTZJ6.8A	
ZD981~983	9L2 3481 21M	Zener diode MTZJ6.2A	
RESISTORS GROUP			
R001		Composition 2.7Mohm 1/2W	RC14GF2H275KBFO U.S.A./Canada models
R002~005		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R006		Carbon film 3.3kohm 1/2W	RD14S2H332JB
R007,008		Carbon chip 100ohm 1/16W	RMC73M-1J101JR
R011		Carbon film 2.2kohm 1/2W	RD14S2H222JB
R012		Carbon film 1kohm 1/4W	RD14S2E102JB
R013		Carbon chip 6.8kohm 1/16W	RMC73M-1J682JR
R014		Carbon film 22kohm 1/6W	RD14S1J223JB
R015		Carbon chip 22kohm 1/16W	RMC73M-1J223JR
R020	9L0 1102 01S	Metal oxide 15ohm 2W	RS08B3D150JS

Ref. No.	Part No.	Part Name	Remarks
R101		Carbon chip 1kohm 1/16W	RMC73M-1F102JR
R102		Carbon film 120ohm 1/6W	RD14S1J121JB
R103		Carbon film 100ohm 1/4W	RDF25S 101J
R104		Carbon chip 5.6kohm 1/16W	RMC73-1F562JR
R105		Carbon chip 2.2kohm 1/16W	RMC73M-1F222JR
R106		Carbon chip 1kohm 1/16W	RMC73M-1F102JR
R107		Carbon chip 220ohm 1/16W	RMC73M-1F221JR
R108,109		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R110		Carbon chip 390ohm 1/16W	RMC73M-1F391JR
R111,112		Carbon chip 330ohm 1/16W	RMC73M-1F331JR
R113		Carbon chip 220ohm 1/16W	RMC73M-1F221JR
R114		Carbon chip 2.7kohm 1/16W	RMC73M-1F272JR
R115		Carbon chip 330ohm 1/16W	RMC73M-1F331JR
R116		Carbon chip 1kohm 1/16W	RMC73M-1F102JR
R117		Carbon chip 100ohm 1/16W	RMC73M-1F101JR
R151		Carbon chip 3.3kohm 1/16W	RMC73M-1F332JR
R152		Carbon chip 100kohm 1/16W	RMC73M-1F104JR
R153		Carbon chip 47kohm 1/16W	RMC73M-1F473JR
R201		Carbon chip 6.8kohm 1/16W	RMC73M-1F682JR
R202,203		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R204		Carbon chip 100ohm 1/16W	RMC73M-1F101JR
R205		Carbon chip 4.7kohm 1/16W	RMC73M-1F472JR
R206		Carbon chip 51ohm 1/16W	RMC73M-1F510JR
R207		Carbon chip 4.7kohm 1/16W	RMC73M-1F472JR
R208		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R209		Carbon chip 3kohm 1/16W	RMC73M-1F302JR
R210,211		Carbon chip 4.7kohm 1/16W	RMC73M-1F472JR
R212		Carbon chip 10kohm 1/16W	RMC73M-1F103JR Except U.S.A./ Canada model
R212		Carbon chip 6.8kohm 1/16W	RMC73M-1F682JR U.S.A./Canada models
R213		Carbon chip 8.2kohm 1/16W	RMC73M-1F822JR
R214,215		Carbon chip 3.3kohm 1/16W	RMC73M-1F332JR
R216~219		Carbon chip 12kohm 1/16W	RMC73M-1F123JR
R220,221		Carbon chip 15kohm 1/16W	RMC73M-1F153JR
R222		Carbon chip 5.6kohm 1/16W	RMC73M-1F562JR
R301,302		Carbon chip 470ohm 1/16W	RMC73M-1F471JR
R303,304		Carbon chip 1Mohm 1/16W	RMC73M-1F105JR
R305,306		Carbon chip 470ohm 1/16W	RMC73M-1F471JR
R307,308		Carbon chip 1Mohm 1/16W	RMC73M-1F105JR
R309,310		Carbon chip 100ohm 1/16W	RMC73M-1F101JR
R311,312		Carbon chip 51kohm 1/16W	RMC73M-1F513JR Except Asia model
R311,312		Carbon chip 220kohm 1/16W	RMC73M-1F224JR Asia model only
R313,314		Carbon chip 100ohm 1/16W	RMC73M-1F101JR
R315,316		Carbon chip 51kohm 1/16W	RMC73M-1F513JR Except Asia model
R315,316		Carbon chip 220kohm 1/16W	RMC73M-1F224JR Asia model only

Ref. No.	Part No.	Part Name	Remarks
R317,318		Carbon chip 100ohm 1/16W	RMC73M-1F101JR
R319,320		Carbon chip 47kohm 1/16W	RMC73M-1F473JR Except Asia model
R319,320		Carbon chip 220kohm 1/16W	RMC73M-1F224JR Asia model only
R321		Carbon chip 100kohm 1/16W	RMC73M-1J104JR
R322		Carbon film 39kohm 1/6W	RD14S1J393JB Asia model only
R323		Carbon chip 0ohm 1/16W	RMC73M-1J000JR Except Asia model
R323		Carbon chip 39kohm 1/16W	RMC73M-1F393JR Asia model only
R324,325		Carbon chip 0ohm 1/16W	RMC73M-1J000JR Except Asia model
R324,325		Carbon chip 10kohm 1/16W	RMC73M-1F103JR Asia model only
R326,327		Carbon chip 470kohm 1/16W	RMC73M-1F474JR
R328,329		Carbon chip 100kohm 1/16W	RMC73M-1F104JR
R330,331		Carbon chip 100ohm 1/16W	RMC73M-1F101JR
R332,333		Carbon chip 51kohm 1/16W	RMC73M-1F513JR Except Asia model
R332,333		Carbon chip 220kohm 1/16W	RMC73M-1F224JR Asia model only
R334,335		Carbon chip 0ohm 1/16W	RMC73M-1J000JR
R338		Carbon chip 680kohm 1/16W	RMC73M-1F684JR
R339,340		Carbon chip 5.6kohm 1/16W	RMC73M-1F562JR Asia model only
R341,342		Carbon chip 22kohm 1/16W	RMC73M-1F223JR Asia model only
R343,344		Carbon chip 1kohm 1/16W	RMC73M-1F102JR
R345,346		Carbon chip 100kohm 1/16W	RMC73M-1F104JR
R351		Carbon chip 100kohm 1/16W	RMC73M-1F104JR
R401,402		Carbon chip 330ohm 1/16W	RMC73M-1F331JR
R403,404		Carbon chip 470kohm 1/16W	RMC73M-1F474JR
R405~410		Carbon chip 1Mohm 1/16W	RMC73M-1F105JR
R411,412		Carbon chip 330ohm 1/16W	RMC73M-1F331JR
R413,414		Carbon chip 1.8kohm 1/16W	RMC73M-1F182JR
R415,416		Carbon chip 1Mohm 1/16W	RMC73M-1F105JR
R417,418		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R419,420		Carbon chip 33kohm 1/16W	RMC73M-1F333JR
R421~423		Carbon chip 2.2kohm 1/16W	RMC73M-1J222JR
R425,426		Carbon chip 100kohm 1/16W	RMC73M-1J104JR
R427,428		Carbon chip 2.2kohm 1/16W	RMC73M-1F222JR
R429,430		Carbon chip 0ohm 1/16W	RMC73M-1J000JR
R431,432		Carbon chip 1kohm 1/16W	RMC73M-1F102JR
R434		Carbon chip 1.2kohm 1/16W	RMC73M-1F122JR
R501,502		Carbon chip 2.7kohm 1/16W	RMC73M-1J272JR
R503,504	9LA T011 71R	Carbon film 100ohm 1/4W (FR)	RD45S2E101JNB-FR
R505,506		Carbon chip 56kohm 1/16W	RMC73M-1J563JR
R507,508	9LA T012 17T	Carbon film 10ohm 1/4W (NB)	RD14S2E100JBT-NB

Ref. No.	Part No.	Part Name	Remarks
R509~511		Carbon chip 22kohm 1/16W	RMC73M-1J223JR
R512		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R514,515	9LA T010 47R	Non-burning type 4.7ohm 1W	RE-4R7J0001NT
R517,518	9LA T010 96R	Non-burning type 330ohm 1W	RE-331J0001NT
R519	9LA T012 42T	Carbon film 82ohm 1/4W (NB)	RD14S2E820JBT-NB
R520		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R521		Carbon chip 2.2kohm 1/16W	RMC73M-1F222JR
R522,523		Carbon chip 22kohm 1/16W	RMC73M-1J223JR
R525,526		Carbon chip 56kohm 1/16W	RMC73M-1J563JR
R527~529		Carbon chip 1Mohm 1/16W	RMC73M-1F105JR
R530		Carbon chip 3.3kohm 1/16W	RMC73M-1F332JR
R531		Carbon chip 100kohm 1/16W	RMC73M-1J104JR
R532		Carbon chip 0ohm 1/16W	RMC73M-1F000JR
R533		Carbon chip 4.7kohm 1/16W	RMC73M-1F472JR
R534	9LA T011 76R	Carbon film 10ohm 1/4W (FR)	RD45S2E100JNB-FR
R537,538		Carbon chip 1kohm 1/16W	RMC73M-1F102JR
R540		Carbon chip 0ohm 1/16W	RMC73M-1J000JR
R601		Carbon chip 470ohm 1/16W	RMC73M-1J471JR
R602~605		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R606,607		Carbon chip 1kohm 1/16W	RMC73M-1J102JR
R608~610		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R612		Carbon chip 47kohm 1/16W	RMC73M-1J473JR
			Except Asia model
R614		Carbon chip 47kohm 1/16W	RMC73M-1J473JR
			Except U.S.A./
			Canada model
R615		Carbon chip 47kohm 1/16W	RMC73M-1J473JR
			U.S.A./Canada/
			Asia models
R616		Carbon chip 47kohm 1/16W	RMC73M-1J473JR
			Asia model only
R617		Carbon chip 47kohm 1/16W	RMC73M-1J473JR
R618		Carbon chip 47kohm 1/16W	RMC73M-1J473JR
			U.S.A./Canada models
R619		Carbon chip 47kohm 1/16W	RMC73M-1J473JR
			Europe/U.K. models
R620,621		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R622,623		Carbon chip 22kohm 1/16W	RMC73M-1J223JR
R624		Carbon film 47kohm 1/6W	RD14S1J473JB
R634,635		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R636,637		Carbon chip 0ohm 1/16W	RMC73M-1J000JR
R638		Carbon chip 470ohm 1/16W	RMC73M-1J471JR
R640		Carbon chip 100kohm 1/16W	RMC73M-1F104JR
R641,642		Carbon chip 4.7kohm 1/16W	RMC73M-1F472JB
R643		Carbon chip 1kohm 1/16W	RMC73M-1F102JR
R650		Carbon chip 1kohm 1/16W	RMC73M-1F102JR
R876,877		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R878,879		Carbon film 10kohm 1/6W	RD14S1J103JB
R992		Carbon chip 220ohm 1/16W	RMC73M-1J221JR
R993		Carbon chip 100ohm 1/16W	RMC73M-1F101JR
RA601,602	9L1 AZ40 03	Metal mixture 100kohm 1/10W	RK92Y2A104JT15L

Ref. No.	Part No.	Part Name	Remarks
CAPACITORS GROUP			
C001,002		Ceramic chip 0.01μF/50V	CK73MF1H103ZR
C003		Ceramic chip 0.047μF/50V	CK73MF1H473ZR
C004		Electrolytic 100μF/50V	CE04W1H101MB(SSL)
C005		Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C006		Ceramic chip 0.01μF/50V	CK73MF1H103ZR
C007		Mylar film 0.22μF/50V	CQ92M1H224KB
C008,009	9LA L010 01	Electrolytic 4700μF/35V	CE68W1V472(SMH)
C010,011		Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C012		Electrolytic 100μF/50V	CE04W1H101MB(SSL)
C013		Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C014~016		Ceramic chip 0.01μF/50V	CK73MF1H103ZR
C017		Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C018	9LA L010 01	Electrolytic 4700μF/35V	CE68W1V472(SMH)
C019,020		Ceramic chip 0.01μF/50V	CK73MF1H103ZR
C021		Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C022		Electrolytic 100μF/10V	CE04W1A101MB(SSL)
C023		Ceramic chip 0.01μF/50V	CK73MF1H103ZR
C025,026		Ceramic 0.1μF/50V	CK14F1H104ZB
C027		Ceramic 0.047μF/16V	CK14Y1C473MB
C030,031		Ceramic chip 0.01μF/50V	CK73MF1H103ZR
C032		Ceramic 0.047μF/16V	CK14Y1C473MB
			Except U.S.A./
			Canada model
C101		Mylar film 0.01μF/50V	CQ92M1H103KB(AMZ)
C103		Ceramic chip 22pF/50V	CC73MSL1H220JR
C104		Ceramic 0.047μF/50V	CK14F1H473ZB(050)
C105		Ceramic chip 100pF/50V	CK73MSL1H101JR
C106		Ceramic chip 0.01μF/50V	CK73MF1H103ZR
C107		Ceramic chip 0.022μF/50V	CK73MF1H223ZR
C108		Electrolytic 47μF/25V	CE04W1E470MB(SSL)
C109		Electrolytic 0.47μF/50V (BP)	CE04W1H1R47BP(SMEBP)
C111		Ceramic chip 0.01μF/50V	CK73MF1H103ZR
C112		Electrolytic 1μF/50V	CE04W1H1R0MB(SSL)
C113		Ceramic chip 0.01μF/50V	CK73MF1H103ZR
C114,115		Ceramic chip 100pF/50V	CK73MSL1H101JR
C116,117		Ceramic chip 27pF/50V	CC73MCH1H270JR
C118		Ceramic 0.01μF/16V	CK14Y1C103MB
C151		Ceramic chip 0.1μF/16V	CK73MF1H104ZR
C152		Ceramic chip 9.0 pF/50V	CK73MCH1H090CR
C201		Electrolytic 47μF/25V	CE04W1E470MB(SSL)
C202~204		Ceramic chip 0.047μF/50V	CK73MF1H473ZR
C205		Ceramic chip 0.01μF/50V	CK73MF1H103ZR
C206		Electrolytic 1μF/50V	CE04W1H1R0MB(SSL)
C207		Ceramic chip 0.01μF/50V	CK73MF1H103ZR
C208		Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C209		Ceramic chip 0.047μF/50V	CK73MF1H473ZR
C210		Electrolytic 1μF/50V	CE04W1H1R0MB(SSL)
C211,212		Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C213		Electrolytic 1μF/50V	CE04W1H1R0MB(SSL)
C214		Electrolytic 0.47μF/50V	CE04W1HR47MB(SSL)

Ref. No.	Part No.	Part Name	Remarks
C215		Electrolytic 1μF/50V	CE04W1H1R0MB(SSL)
C216		Electrolytic 33μF/31.5V	CE04W1F330MB(SSL)
C217,218		Ceramic chip 0.047μF/50V	CK73MF1H473ZR
C219		Electrolytic 3.3μF/50V	CE04W1H3R3MB(SSL)
C220		Electrolytic 22μF/50V	CE04W1H220MB(SSL)
C221		Ceramic 330pF/50V	CK14B1H331KB(050) Except Asia model
C221		Ceramic 820pF/50V	CK14B1H821KB(050) Asia model only
C222		Ceramic chip 0.047μF/50V	CK73MF1H473ZR
C223		Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C224,225		Mylar film 0.033μF/50V	CQ92M1H333KB(AMZ) Except U.S.A./ Canada model
C224,225		Mylar film 0.047μF/50V	CQ92M1H473KB(AMZ) U.S.A./Canada models
C226,227		Ceramic chip 2700pF/50V	CK73MB1H272BR Europe/U.K. models
C228,229		Electrolytic 2.2μF/50V	CE04W1H2R2MB(SSL)
C230		Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C232		Ceramic chip 0.01μF/50V	CK73MF1H103ZR
C235		Ceramic 0.047μF/50V	CK14SL1H473ZB
C236		Mylar film 0.01μF/16V	CQ14Y1C103MB
C251,252		Ceramic chip 22pF/50V	CC73MCH1H220JR Except Asia model
C253		Ceramic chip 0.01μF/50V	CK73MF1H103ZR Except Asia model
C254		Electrolytic 47μF/25V	CE04W1E470MB(SSL) Except Asia model
C255		Ceramic chip 560pF/50V	CK73MSL1H561JR Except Asia model
C256		Electrolytic 47μF/25V	CE04W1E470MB(SSL) Except Asia model
C257		Ceramic chip 0.01μF/50V	CK73MF1H103ZR Except Asia model
C258		Electrolytic 10μF/50V	CE04W1H100MB(SSL) Except Asia model
C259		Ceramic chip 330pF/50V	CC73MSL1H331JR Except Asia model
C301,302		Ceramic 0.01μF/16V	CG14Y1C103MB Except U.S.A./ Canada model
C303		Ceramic chip 0.01μF/50V	CK73MF1H103ZR
C304,305		Ceramic chip 220pF/50V	CK73MSL1H221JR U.S.A./Canada/ Asia models
C304,305		Ceramic chip 470pF/50V	CK73MSL1H471JR Europe/U.K. models
C306		Electrolytic 1μF/50V	CE04W1H010MB
C309,310		Ceramic chip 220pF/50V	CK73MSL1H221JR U.S.A./Canada/ Asia models
C309,310		Ceramic chip 470pF/50V	CK73MSL1H471JR Europe/U.K. models
C311		Electrolytic 1μF/50V	CE04W1H1R0MB Except U.S.A./ Canada model
C314~319		Ceramic chip 100pF/50V	CK73MSL1H101JR U.S.A./Canada models
C314~319		Ceramic chip 1000pF/50V	CK73MSL1H102JR Except U.S.A./ Canada model
C320,321		Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C322,323		Electrolytic 1μF/50V	CE04W1H010MB(SSL)
C324~327		Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C328		Ceramic chip 0.022μF/50V	CK73MF223ZR
C331		Electrolytic 10μF/50V	CE0W1H100MB(SSL)
C332,333		Ceramic 0.047μF/16V	CK14Y1C473MB Except U.S.A./ Canada model
C403,404		Electrolytic 47μF/25V	CE04W1E470MB(SSL)
C405,406		Electrolytic 0.15μF/50V	CE04W1HR15MB
C407,408		Electrolytic 0.22μF/50V	CE04W1HR22MB
C409		Electrolytic 1μF/50V	CE04W1H010MB(SSL)
C410		Electrolytic 1μF/50V	CE04W1H010MB(SRA)
C411,412		Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C413		Electrolytic 1μF/50V	CE04W1H010MB(SSL)
C414		Electrolytic 1μF/50V	CE04W1H010(SRA)
C415,416		Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C419,420		Mylar film 0.022μF/50V	CQ92M1H223KB(AMZ)
C421,422		Mylar film 4700pF/50V	CQ92M1H472KB(AMZ)
C423,424		Mylar film 0.1μF/50V	CQ92M1H104KB(AMZ)
C425		Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C426		Ceramic 0.01μF/16V	CG14Y1C103MB Except U.S.A./ Canada model
C428,429		Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C432		Ceramic chip 0.01μF/25V	CK73MF1H103ZR
C440		Electrolytic 1μF/50V	CE04W1H010MB(SSL)
C441		Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C442		Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C501,502		Electrolytic 22μF/50V	CE04W1H220MB(SSL)
C503,504		Electrolytic 100μF/50V	CE04W1H101MB(SSL)
C505,506		Ceramic chip 3.0pF/50V	CK73MSL1H030JR
C507,508		Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C509		Electrolytic 330μF/6.3V	CE04W0J331MB
C510,511		Mylar film 0.1μF/50V	CQ92M1H104KB(AMZ)
C512,513		Ceramic chip 220pF/50V	CK73MSL1H221JR U.S.A./Canada/ Asia models
C512,513		Ceramic chip 1000pF/50V	CK73MSL1H102JR Europe/U.K. models
C514		Ceramic chip 0.1μF/25V	CK73MF1E104ZR

Ref. No.	Part No.	Part Name	Remarks
C515,516		Mylar film 0.01μF/50V	CQ92M1H103KB(AMZ)
C517~519		Ceramic chip 0.01μF/50V	CK73M1H103ZR
C521,522		Electrolytic 4.7μF/50V	CE04W1H4R7MB(SSL)
C523		Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C524		Electrolytic 47μF/25V	CE04W1E470MB(SSL)
C525		Ceramic 0.1μF/50V	CK14F1H104ZB
C526		Ceramic 0.01μF/16V	CG14Y1C103MB Except U.S.A./ Canada model
C528		Ceramic 0.01μF/16V	CG14Y1C103MB Except U.S.A./ Canada model
C531		Ceramic chip 470pF/50V	CK73MSL1H471R
C533,534		Ceramic chip 2200pF/50V	CK73MB1H222KR
C601		Electrolytic 22μF/50V	CE04W1H220MB(SSL)
C602		Ceramic chip 0.01μF/50V	CK73MF1H103ZR
C603		Ceramic chip 0.1μF/50V	CK73MF1E104ZR
C605		Ceramic chip 1000pF/50V	CK73MB1H102KR
C621		Ceramic chip 47pF/50V	CC73MSL1H470JR U.S.A./Canada models
C641		Ceramic chip 0.1μF/50V	CK73MF1E104ZR
C650		Ceramic chip 0.01μF/50V	CK73MF1H103ZR
C801		Ceramic chip 4700pF/50V	CK73MF1H472ZR Except U.S.A./ Canada model
C802		Ceramic 0.01μF/16V	CG14Y1C103MB Asia model only
C893,894		Mylar film 0.022μF/50V	CQ92M1H223KB(AMZ) Asia model only
C895		Electrolytic 100μF/25V	CE04W1E101MB(SSL)
C896~898		Ceramic chip 0.01μF/50V	CK73MF1H103ZR

OTHER PARTS GROUP				Q'ty
FE101	9LH H000 42	Tuner pack FE450-G01	Europe/U.K. models	1
FE101	9LH H000 41	Tuner pack FE350-A01	U.S.A./Canada/ Asia models	1
JK101	9LE U000 11	Antenna terminal KYD31		1
JK301	9LE R002 24	4P US pin jack		1
JK302	9LE R002 23	6P US pin jack		1
JK501	9L2 6950 33	Headphone jack		1
JK502	9LE R002 41	1P US pin jack		1
JK503	9LE U000 86	4P SP terminal		1
JK802,803	9L2 6714 13	Mini jack (3.5)		2
L001	9L2 1222 53M	LA axial coil 101K		1
L501,502	9L2 2273 61	Audio trap coil		2
L845	9LB M002 61R	Chip bead	Asia model only	1
L895	9L2 1222 39M	LA axial coil 100K		1

Ref. No.	Part No.	Part Name	Remarks	Q'ty
E001,002	9L2 7292 52R	Fuse holder		1
E003	—	Lug terminal		1
E102	—	Lug terminal	U.S.A./Canada models	1
E201	—	Lug terminal	U.S.A./Canada models	1
E501	—	Lug terminal	Except U.S.A./ Canada model	1
E810	—	Lug terminal	Except U.S.A./ Canada model	1
X601	9L2 1684 81	Crystal CST4.19MGW		1
⚠PR001,002	9LF N001 82M	Protector 250mA		2
⚠PR003	9LF N001 83M	Protector 315mA		1
⚠PR004	9LF N001 87M	Protector 750mA		1
SW601	9L2 6225 21	Switch (SL2-2)	Asia model only	1
RY501	9LF J001 21	Relay		1
CF101	9L2 1349 92	Ceramic filter SFE10.7MA8	U.S.A./Canada /Asia models	1
CF101	9LB N001 01	Ceramic filter SFT10.7MS2	Europe/U.K. models	1
CF102	9LB N001 11	Ceramic filter SFE10.7MS2G	U.S.A./Canada /Asia models	1
CF102	9LB N001 01	Ceramic filter SFT10.7MS2	Europe/U.K. models	1
BL001	9LB H005 32	AM RF block		1
T201	9LB J002 52	AM IFT (LA1873)		1
T202	9LB J004 22	FM DISCRI coil		1
T203,204	9LB J004 11	LPF (19KHz)	Europe/U.K. models	2
X101	9L2 1701 32R	Crystal 7.2MHz		1
X251	9L2 1701 33R	Crystal 4.332MHz	Except Asia model	1
PG001	9L2 6742 84	2P-4S VH plug		1
PG002	9L2 6688 12W	3P VH pin post		1
PG003	9L2 9590 53	4P PH pin post		1
PG004	9L2 6742 84	2P-4S VH plug		1
PG005	9L2 9022 62	3P EH pin post		1
PG101	9L2 9590 63	13P PH pin post		1
PG304	9L2 9590 52	3P PH pin post		1
PG305	9L2 9590 53	4P PH pin post		1
PG306	9L2 9590 53	4P PH pin post	Asia model only	1
PG501	9L2 9590 58	9P PH pin post		1
PG503	9L2 9590 54	5P PH pin post		1
PG504	9L2 9590 57	8P PH pin post		1
PG505	9L2 9590 52	3P PH pin post		1
PG507	9L2 9590 52	3P PH pin post		1
PG601B	9LE D022 61	30P FFC connector (L)		1
PG602	9L2 9590 56	7P PH pin post		1
PG601C	9LE D017 52	30P FFC connector base		1
PG601D	9LE D017 52	30P FFC connector base		1

CD P.W.B. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty
PG703	9L2 9590 62	12P PH pin post		1
PG704	9L2 9590 64	14P PH pin post		1
PG811	9L2 9590 52	3P PH pin post	Asia model only	1
CN101	9LE F070 01	13P KR-DA connector cord	L=80	1
CN305	9LE F068 25	4P KR-DA connector cord	L=160	1
CN501	9LE F081 32	9P PH-SAN connector cord	L=300	1
CN503	9L2 9091 45L	5P PH connector cord	L=360	1
CN504	9L2 9092 28L	8P PH connector cord	L=200	1
CN505	9L2 9090 78L	3P PH connector cord	L=200	1
CN508	9LE F077 02	4P SAN-SAN connector cord	L=100	1
CN807	9LE F068 67	6P KR-DA connector cord	L=200	1
CN810	9LE F078 144	8P FJ connector		1
ST001~004	—	Style pin		4
W003	—	UL wire	UL1007 #24S	1
W005	—	UL wire	UL1007 #27S Except U.S.A. /Canada model	1
W101	—	UL wire	UL1007 #24S	1
W102	—	UL wire(BLK)	UL1007 #24S U.S.A./Canada models	1
W201	—	UL wire	UL1007 #24S U.S.A./Canada models	1
W301	—	UL wire	UL1007 #24S	1
W601	9LE K002 88	1P board in connector cord	L=80	1
W501	—	UL wire(BLK)	UL1007 #24S Except U.S.A. /Canada model	1
W602	—	UL wire(RED)	UL1007 #24S	1
W603	—	UL wire(RED)	UL1007 #24S	1
W802	—	UL wire	UL1007 #24S Except U.S.A. /Canada model	1
#001	9L4 7874 06	Heat sink		3
#002	9L8 6914 08	Screw 3X8 BT BIND		3
#100	9LM D040 51	Shield plate (TU)	U.S.A./Canada /Asia models	1
#121	9LQ N031 42	Protector label		1
	9LJ T082 91	Main P.W.B. Ass'y	U.S.A./Canada models	1
	9LJ T082 92	Main P.W.B. Ass'y	Europe model only	1
	9LJ T082 93	Main P.W.B. Ass'y	U.K. model only	1
	9LJ T082 96	Main P.W.B. Ass'y	Asia model only	1

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC701	9L2 3883 01R	IC BA4558F	Asia model only
IC801	9LC K077 21R	IC AN8808SB	
IC802	9LC K077 31	IC MN662720RB	
IC803	9LC K080 31R	IC AN8389S	
IC881	9LC W002 11	IC RD-DVK023-K	Asia model only
IC901	9LC K309 71	IC MN1874823PC	
IC951	9LC K045 22R	IC PCM1717E	
IC952	9LC K014 51R	IC BA15218F	
IR701	9LC J002 52U	IR SENSOR(PRM-6938-V4)	
FL701	9LD D000 63	FL TUBE(SVA-12MM16)	
Q701	9LC A005 81R	Transistor DTC323TK	Asia model only
Q730~735	9L2 3163 61R	Transistor DTC114EK	
Q801	9L2 3182 93T	Transistor 2SA933(S)	
Q840	9LC A007 91R	Transistor DTC124K	
Q841	9L2 3256 91R	Transistor 2SC2412K	
Q842	274 0078 031	Transistor 2SD882 Q/P	
Q881	9L2 3190 62	Transistor HIT5609C	Asia model only
Q890	9LC A007 91R	Transistor DTC124K	
Q891	9L2 3191 52	Transistor HIT5610C	
Q892	9L2 3280 83T	Transistor 2SA844E	
Q951,952	9L2 3154 22R	Transistor 2SD1468S	
Q975	9L2 3256 91R	Transistor 2SC2412K	
Q980	271 0238 908	Transistor 2SA1037AK (Q/R)	
Q981,982	9L2 3256 91R	Transistor 2SC2412K	
D701~703	9LC H011 31R	LED SPR-505MVW	
D704	9LC C000 03R	Diode 1SS355	Asia model only
D840	9L2 3989 21T	Diode 1N4531T/1SS133	
D890	9L2 3989 21T	Diode 1N4531T/1SS133	
D951	9L2 3989 21T	Diode 1N4531T/1SS133	
D975	9L2 3989 21T	Diode 1N4531T/1SS133	
D980	9L2 3989 21T	Diode 1N4531T/1SS133	
ZD840	9L2 3481 52M	Zener diode MTZJ-8.2B	
ZD881	9L2 3480 72M	Zener diode MTZJ-3.9B	Asia model only

Ref. No.	Part No.	Part Name	Remarks
RESISTORS GROUP			
R021		Carbon chip 22kohm 1/16W	RMC73M-1J223JR
R702		Carbon chip 1.5kohm 1/16W	RMC73M-1J152JR
R703		Carbon chip 2.2kohm 1/16W	RCM73M-1F222JR
R704		Carbon chip 3.9kohm 1/16W	RCM73M-1F392JR
R705		Carbon chip 5.6kohm 1/16W	RCM73M-1F562JR
R706		Carbon chip 8.2kohm 1/16W	RCM73M-1F822JR
R707		Carbon chip 15kohm 1/16W	RCM73M-1F153JR
R708		Carbon chip 33kohm 1/16W	RCM73M-1F333JR
R709		Carbon chip 82kohm 1/16W	RCM73M-1F823JR
R711		Carbon chip 150ohm 1/16W	RCM73M-1F151JR
R712		Carbon chip 180ohm 1/16W	RCM73M-1F181JR
R713		Carbon chip 270ohm 1/16W	RCM73M-1F271JR
R715		Carbon chip 150ohm 1/16W	RCM73M-1F151JR
R716		Carbon chip 180ohm 1/16W	RCM73M-1F181JR
R717		Carbon chip 270ohm 1/16W	RCM73M-1F271JR
R718		Carbon chip 390ohm 1/16W	RCM73M-1F391JR
R719,720		Carbon chip 680ohm 1/16W	RCM73M-1F681JR
R721		Carbon chip 1.2kohm 1/16W	RCM73M-1F122JR
R722		Carbon chip 390ohm 1/16W	RCM73M-1F391JR
R723		Carbon chip 1.5kohm 1/16W	RMC73M-1J152JR
R724		Carbon chip 2.2kohm 1/16W	RCM73M-1F222JR
R725		Carbon chip 2.7kohm 1/16W	RCM73M-1F272JR
R730		Carbon chip 330ohm 1/16W	RMC73M-1J331JR
R731		Carbon chip 220ohm 1/16W	RMC73M-1J221JR
R732		Carbon chip 330ohm 1/16W	RMC73M-1J331JR
R733		Carbon chip 220ohm 1/16W	RMC73M-1J221JR
R734		Carbon chip 330ohm 1/16W	RMC73M-1J331JR
R735		Carbon chip 220ohm 1/16W	RMC73M-1J221JR
R736		Carbon chip 47ohm 1/16W	RMC73M-1J470JR
R740		Carbon chip 4.7kohm 1/16W	RMC73M-1J472JR Asia model only
R741,742		Carbon chip 100kohm 1/16W	RMC73M-1J104JR Asia model only
R743		Carbon chip 390ohm 1/16W	RMC73M-1F391JR Asia model only
R744		Carbon chip 100kohm 1/16W	RMC73M-1J104JR Asia model only
R745		Carbon chip 100ohm 1/16W	RMC73M-1J101JR Asia model only
R748		Carbon chip 33kohm 1/16W	RMC73M-1F333JR Asia model only
R749		Carbon chip 10kohm 1/16W	RMC73M-1F103JR Asia model only
R801,802		Carbon chip 22kohm 1/16W	RMC73M-1J223JR
R803,804		Carbon chip 68kohm 1/16W	RMC73M-1J683JR
R805,806		Carbon chip 22kohm 1/16W	RMC73M-1J223JR
R807		Carbon chip 390kohm 1/16W	RMC73M-1J394JR
R808		Carbon chip 330kohm 1/16W	RMC73M-1J334JR
R810		Carbon chip 18kohm 1/16W	RMC73M-1J183JR

Ref. No.	Part No.	Part Name	Remarks
R812		Carbon chip 22kohm 1/16W	RMC73M-1J223JR
R814		Carbon chip 39kohm 1/16W	RMC73M-1J393JR
R815		Carbon chip 220kohm 1/16W	RMC73M-1J224JR
R816		Carbon chip 1.8kohm 1/16W	RMC73M-1J182JR
R817		Carbon chip 1.5kohm 1/16W	RMC73M-1J152JR
R818		Carbon chip 1kohm 1/16W	RMC73M-1F102JR
R821		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R822		Carbon chip 100ohm 1/16W	RMC73M-1F101JR
R826		Carbon chip 47ohm 1/16W	RMC73M-1J470JR
R827		Carbon film 18ohm 1/4W	RD14S2E180JT
R840		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R841		Carbon film 330ohm 1/4W	RD14S2E331JR Except Asia model
R851		Carbon chip 470ohm 1/16W	RMC73M-1F471JR
R852		Carbon chip 47kohm 1/16W	RMC73M-1F473JR
R853		Carbon chip 120kohm 1/16W	RMC73M-1F124JR
R854		Carbon chip 1Mohm 1/16W	RMC73M-1F105JR
R855		Carbon chip 100kohm 1/16W	RMC73M-1J104JR
R857		Carbon chip 150ohm 1/16W	RMC73M-1F151JR
R858		Carbon chip 680ohm 1/16W	RMC73M-1F681JR
R861,862		Carbon chip 47kohm 1/16W	RMC73M-1F473JR
R863		Carbon chip 1.8kohm 1/16W	RMC73M-1J182JR
R864		Carbon chip 2.7kohm 1/16W	RMC73M-1J272JR
R865		Carbon chip 220kohm 1/16W	RMC73M-1J224JR
R866		Carbon chip 1.8kohm 1/16W	RMC73M-1J182JR
R867		Carbon chip 68kohm 1/16W	RMC73M-1J683JR
R868		Carbon chip 1kohm 1/16W	RMC73M-1F102JR
R869		Carbon chip 33kohm 1/16W	RMC73M-1J333JR
R870		Carbon chip 330kohm 1/16W	RMC73M-1J334JR
R871		Carbon chip 22kohm 1/16W	RMC73M-1J223JR
R872		Carbon chip 1kohm 1/16W	RMC73M-1F102JR
R873		Carbon chip 150kohm 1/16W	RMC73M-1F154JR
R874		Carbon chip 12kohm 1/16W	RMC73M-1F123JR
R875		Carbon chip 100ohm 1/16W	RMC73M-1F101JR
R880,881		Carbon chip 0ohm 1/16W	RMC73M-1J000JR Except Asia model
R880,881		Carbon chip 180ohm 1/16W	RCM73M-1F181JR Asia model only
R882		Carbon chip 100ohm 1/16W	RMC73M-1F101JR Asia model only
R883		Carbon chip 0ohm 1/16W	RMC73M-1J000JR Asia model only
R884		Carbon chip 330ohm 1/16W	RMC73M-1F331JR Asia model only
R885		Carbon chip 0ohm 1/16W	RMC73M-1J000JR Asia model only
R885		Carbon chip 330ohm 1/16W	RMC73M-1F331JR Except Asia model
R886		Carbon chip 330ohm 1/16W	RMC73M-1F331JR
R887		Carbon chip 330ohm 1/16W	RMC73M-1F331JR Except Asia model

Ref. No.	Part No.	Part Name	Remarks
R888~890		Carbon chip 0ohm 1/16W	RMC73M-1J000JR
			Except Asia model
R891		Carbon chip 22kohm 1/16W	RMC73M-1J223JR
R892		Carbon chip 2.2kohm 1/16W	RCM73M-1F222JR
R901		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R902		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
			Except Asia model
R903~905		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R906,907		Carbon chip 15kohm 1/16W	RMC73M-1F153JR
R908~911		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R912~926		Carbon chip 1kohm 1/16W	RMC73M-1F102JR
R927~936		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R937~944		Carbon chip 1kohm 1/16W	RMC73M-1F102JR
R945~952		Carbon chip 22kohm 1/16W	RMC73M-1J223JR
R955		Carbon chip 560ohm 1/16W	RMC73M-1J561JR
R956		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R957		Carbon film 22ohm 1/2W	RD14S2H220JB
R961,962		Carbon chip 680ohm 1/16W	RMC73M-1F681JR
R963,964		Carbon chip 33kohm 1/16W	RMC73M-1F333JR
R965,966		Carbon chip 6.8kohm 1/16W	RMC73M-1F682JR
R967,968		Carbon chip 680ohm 1/16W	RMC73M-1F681JR
R969,970		Carbon chip 68kohm 1/16W	RMC73M-1F683JR
R971,972		Carbon chip 1kohm 1/16W	RMC73M-1F102JR
R973,974		Carbon chip 68kohm 1/16W	RMC73M-1F683JR
R975,976		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R980,981		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R982,983		Carbon chip 22kohm 1/16W	RMC73M-1J223JR
R984		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
R985		Carbon chip 22kohm 1/16W	RMC73M-1J223JR
R986		Carbon chip 47kohm 1/16W	RMC73M-1F473JR
R987		Carbon chip 2.2kohm 1/16W	RCM73M-1F222JR
R989		Carbon chip 1kohm 1/16W	RMC73M-1F102JR
R990,991		Carbon chip 22kohm 1/16W	RMC73M-1J223JR
R994~998		Carbon chip 10kohm 1/16W	RMC73M-1F103JR
			Except Asia model
VR701	9LA Y005 91	Mic volume	10kohm
			Asia model only
CAPACITORS GROUP			
C703,704		Ceramic chip 1000pF/50V	CK73MF1H102ZR
C706		Electrolytic 47µF/10V	CE04W1A470MB(SRA)
C707		Ceramic chip 0.01µF/50V	CK73MF1H103ZR
C708		Ceramic chip 0.01µF/50V	CK73MF1H103ZR
			Asia model only
C709		Ceramic chip 0.1µF/25V	CK73MF1E104ZR
			Asia model only
C740		Ceramic chip 0.1µF/25V	CK73MF1E104ZR
			Asia model only
C741		Electrolytic 47µF/31.5V	CE04W1F470MB
			Asia model only

Ref. No.	Part No.	Part Name	Remarks
C742		Ceramic chip 330pF/50V	CK73MSL1H331JR
			Asia model only
C743		Electrolytic 2.2µF/50V	CE04W1HR2R2MB
			Asia model only
C744		Ceramic chip 180pF/50V	CK73MSL1H181JR
			Asia model only
C745		Ceramic chip 4700pF/50V	CK73MSL1H472JR
			Asia model only
C804		Electrolytic 2.2µF/50V	CE04W1H2R2MB(SSL)
C805		Ceramic chip 390pF/50V	CC73MSL1H391JR
C806,807		Mylar film 0.1µF/50V	CQ92M1H104KB(AMZ)
C808		Electrolytic 4.7µF/50V	CE04W1H4R7MB(SSL)
C809		Ceramic chip 1200pF/50V	CK73MF1H122ZR
C811		Ceramic chip 0.033µF/50V	CK73MF1H333KR
C812		Ceramic chip 4700pF/50V	CK73MF1H472ZR
C814		Mylar film 0.1µF/50V	CQ92M1H104KB(AMZ)
C815		Ceramic chip 0.047µF/50V	CK73MF1H473ZR
C816		Ceramic chip 10pF/50V	CC73MCH1H100JR
C817		Ceramic chip 120pF/50V	CC73MSL1H121JR
C818		Electrolytic 1µF/50V	CE04W1H010MB(SSL)
C819		Ceramic chip 100pF/50V	CK73MSL1H101JR
C820		Ceramic chip 0.027µF/50V	CK73MF1H273ZR
C821,822		Ceramic chip 1000pF/50V	CK73MF1H102ZR
C823		Ceramic chip 0.1µF/25V	CK73MF1E104ZR
C824		Electrolytic 220µF/10V	CE04W1A221MB
C825		Electrolytic 1µF/50V	CE04W1H010MB(SSL)
C826		Ceramic chip 390pF/50V	CC73MSL1H391JR
C827,828		Ceramic chip 0.022µF/50V	CK73MF1H223ZR
C830		Mylar film 0.1µF/50V	CQ92M1H104KB(AMZ)
C832		Electrolytic 0.33µF/50V	CE04W1HR33MB(SME)
C833		Ceramic chip 0.1µF/25V	CK73MF1E104ZR
C834		Electrolytic 100µF/16V	CE04W1C101MB(SSL)
C835		Electrolytic 100µF/6.3V	CE04W0J101MB(SRA)
C836		Ceramic chip 0.1µF/25V	CK73MF1E104ZR
C837		Ceramic chip 100pF/50V	CK73MSL1H101JR
C838		Mylar film 0.033µF/50V	CQ92M1H333KB(AMZ)
C839		Mylar film 0.22µF/50V	CQ92M1H224KB(AMZ)
C840		Ceramic chip 2200pF/25V	CK73MF1E222ZR
C841		Electrolytic 1µF/50V	CE04W1H010MB(SSL)
C842		Electrolytic 10µF/50V	CE04W1H100MB(SSL)
C844		Ceramic 0.01µF/16V	CG14Y1C103MB
C845		Ceramic chip 1000pF/50V	CK73MSL1H102JR
C851		Electrolytic 330µF/6.3V	CE04W0J331(SRA)
C852~855		Ceramic chip 0.1µF/25V	CK73MF1E104ZR
C861		Ceramic chip 0.01µF/50V	CK73MF1H103ZR
C862,863		Electrolytic 100µF/10V	CE04W1A101MT
C864		Ceramic chip 0.01µF/50V	CK73MF1H103ZR
C880		Ceramic chip 0.1µF/25V	CK73MF1E104ZR
			Asia model only
C881		Electrolytic 220µF/6.3V	CE04W0J221MB(SRA)
			Asia model only

Ref. No.	Part No.	Part Name	Remarks
C882		Ceramic chip 0.1µF/25V	CK73MF1E104ZR
			Asia model only
C883		Electrolytic 220µF/6.3V	CE04W0J221MB(SRA)
			Asia model only
C884		Ceramic chip 0.1µF/25V	CK73MF1E104ZR
			Asia model only
C885		Electrolytic 220µF/6.3V	CE04W0J221MB(SRA)
			Asia model only
C886		Electrolytic 47µF/6.3V	CE04W0J470MB(SRA)
			Asia model only
C890		Electrolytic 10µF/16V	CE04W1C100MB(SRA)
C891		Electrolytic 10µF/16V	CE04W1C100MB(SRA)
C901		Ceramic chip 0.01µF/50V	CK73MF1H103ZR
C902		Electrolytic 100µF/6.3V	CE04W0J101MT(SRA)
C903,904		Ceramic chip 1000pF/50V	CK73MF1H102ZR
C951		Electrolytic 10µF/50V	CE04W1H100MB(SSL)
C952		Ceramic chip 0.01µF/50V	CK73MF1H103ZR
C953		Electrolytic 220µF/10V	CE04W1A221MB
C954,955		Ceramic chip 22pF/50V	CC73MSL1H220JR
C956		Ceramic chip 1000pF/50V	CK73MF1H102ZR
C959,960		Electrolytic 10µF/50V	CE04W1H100MB(SSL)
C961,962		Ceramic chip 4700pF/50V	CK73MF1H472ZR
C963,964		Electrolytic 1µF/50V	CE04W1H010MB(SSL)
C965,966		Electrolytic 4.7µF/50V	CE04W1H4R7MB(SSL)
C967,968		Mylar film 4700pF/50V	CQ92M1H472KB(AMZ)
C971,972		Electrolytic 100µF/16V	CE04W1C101MB(SSL)
C973,974		Ceramic 0.01µF/16V	CG14Y1C103MB
			Except U.S.A./
			Canada model
C980~982		Ceramic chip 1000pF/50V	CK73MF1H102ZR

OTHER PARTS GROUP				Q'ty
X951	399 0036 013	Crystal 16.9MHz		1
XL901	9LB P001 41	Ceramic resonator	CST8.00MTW	1
L880	9L2 2279 14M	Axial coil 3.3	Asia model only	1
S701~722	9LF E003 01R	Tact switch		22
RE701	9LF H001 11	Rotary encoder	EC16B24104	1
JK701	9LE R005 02	Mic jack	Asia model only	1
#001	9LN J027 71	FL holder		1
#003	9LE D022 22	LED holder		3
#881	9LM D032 02	Shield plate (C)	Asia model only	1
CN304	9LE F068 06	3P KR-DA connector cord	L=180	1
CN306	9LE F081 31	4P PH connector cord	L=320	1
			Asia model only	
CN602	9LE F068 82	7P KR-DA connector cord	L=100	1

Ref. No.	Part No.	Part Name	Remarks	Q'ty
CN703	9LE F069 86	12P KR-DA connector cord	L=180	1
CN704	9LE F070 24	14P KR-DA connector cord	L=140	1
CN801	9LE F096 51	10P KR-DA connector cord	L=270	1
CN811	9LE F068 12	3P KR-DA connector cord	L=300	1
			Asia model only	
CN812	9L2 9094 68	2P SAN-SAN connector cord	L=200	1
			Asia model only	
PG601A	9LE D020 81	30P FFC connector base (L)		1
PG801	9L2 6752 89	10P PH pin post(L)		1
PG802	9L2 9590 56	7P PH pin post		1
PG803	9L2 9590 57	8P PH pin post		1
PG804	9LE D017 21	30P BTEM(S) pin post	Asia model only	1
PG805	9L2 6742 64	5P MX pin post		1
PG806	9L2 6742 65	6P MX pin post		1
PG807	9L2 9590 55	6P PH pin post		1
PG808	9L2 6742 65	6P MX pin post		1
PG810	9L2 6746 44	8P FJ plug		1
W702	—	UL wire(BRN)	UL1007 #24S	1
W704A	9L2 6745 91	Wire holder		1
W704B	9L2 6745 91	Wire holder		1
W704	9LE D017 67	3P ribbon wire	L=50	1
W705	—	UL wire(BLK)	UL 1007 #24S	1
			Asia model only	
W741	9L2 7122 89	2P shild wire	Asia model only	1
W742	9LE D017 68	2P ribbon wire	Asia model only	1
W743	—	UL wire(BRN)	UL 1007 #24S	1
			Asia model only	
W801	—	UL wire	UL 1007 #24S	1
			Asia model only	
W887	—	UL wire(BLK)	UL 1007 #24S	1
			Asia model only	
	9LJ T083 01	CD P.W.B. Ass'y	U.S.A./Canada models	1
	9LJ T083 02	CD P.W.B. Ass'y	Europe model only	1
	9LJ T083 03	CD P.W.B. Ass'y	U.K. model only	1
	9LJ T083 06	CD P.W.B. Ass'y	Asia model only	1

EXPLODED VIEW

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

U.K. model
(3P BS adaptor)

Europe / U.K. / Asia model

U.S.A. / Canada model

PARTS LIST OF EXPLODED VIEW

* As for "Note" in Part No. refer to ADDENDUM PARTS LIST on the right page.

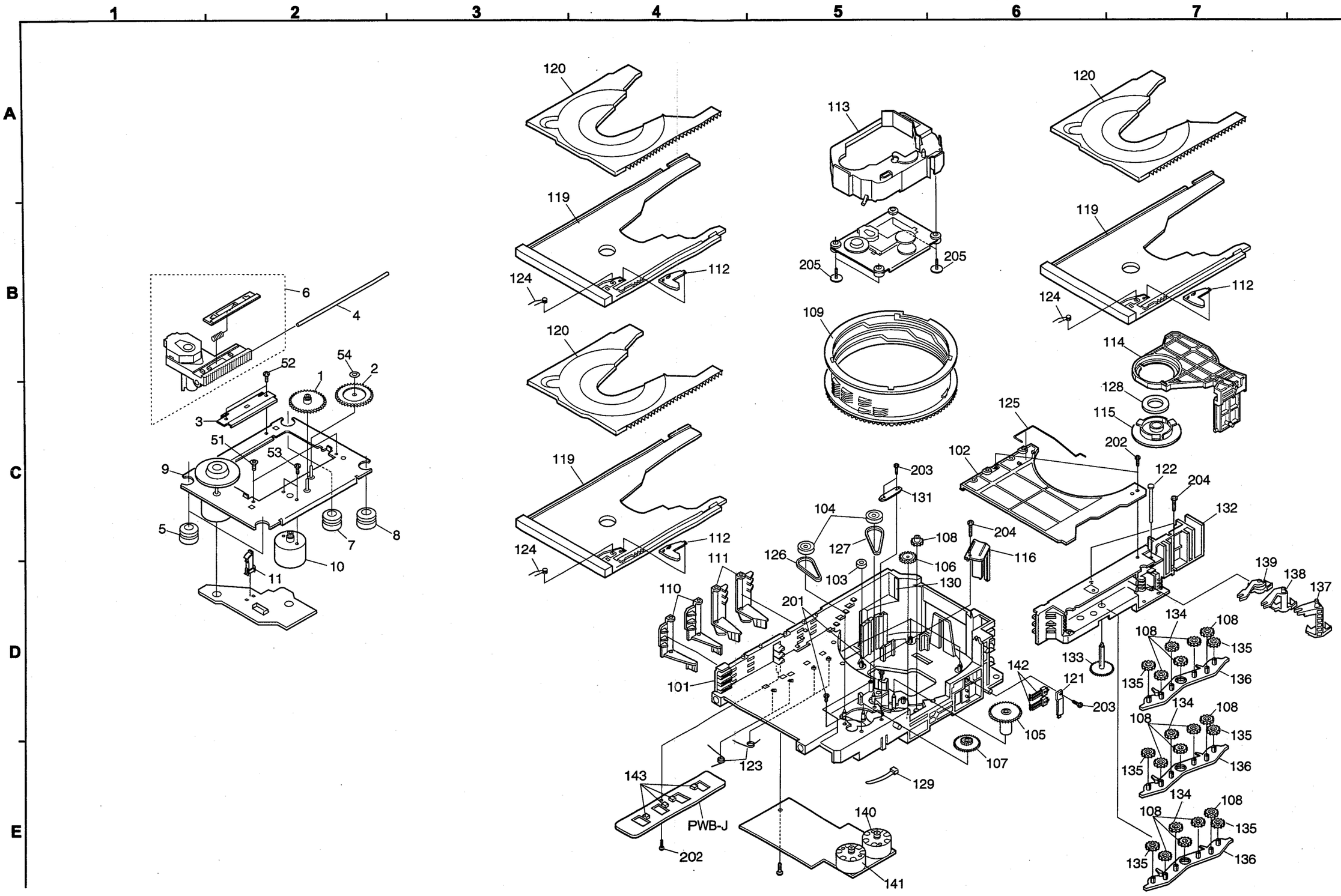
Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	* Note	Main/Tuner P.W.B. Ass'y		1
1-1		Main unit		(1)
1-2		Tuner unit		(1)
1-3		Motor unit		(1)
1-4		Power unit		(1)
1-5		H/P unit		(1)
1-6		Speaker unit		(1)
1-7		Jack unit		(1)
2	* Note	CD/Display P.W.B. Ass'y		1
2-1		CD unit		(1)
2-2		Display unit		(1)
2-3		Control unit		(1)
2-4		Mic jack unit	Asia model only	(1)
2-5		Mic CCT. unit	Asia model only	(1)
2-6		V-CD unit	Asia model only	(1)
3	* Note	Front panel AL		1
★ 4	9LS U018 51	Protection paper		1
5	* Note	Clear panel		1
6	9LP U003 31	DENON badge		1
7	9L4 8583 36	Spacer (60mm x 8mm)	for top cover	1
8	9LP H058 91	OP/CL Indicator		1
9	9LM E016 41	Shield sheet		1
★ 10	9LM N017 51	FL display spacer		1
11	* Note	Front panel		1
12	* Note	Button (OP/CL)		1
13	* Note	Button (play)		1
14	* Note	Button (tuner)		1
15	* Note	Button (power)		1
16	* Note	Volume knob Ass'y		1
17	9LN Q061 21	Chassis		1
18	9LM B003 61	Heat sink		1
19	9LN A285 31	Heat sink bracket		2
20	9LU C004 51	3-CD changer mecha. unit		1
21	9LN J028 21	Mecha. holder		1
22	9LN A287 41	Mecha. holder bracket		1
23	* Note	Rear plate		1
24	9LG S002 91	Cooling fan		1
25	9LN A285 41	Trans bracket		1
26	9LQ D057 91	Trans cover		1
★ 27	9LQ N031 01	Spacer washer		1
28	9LQ J003 91	Foot		4
29	9LM S002 11	Felt		4
30	9LQ A011 51	Top cover		1
31	* Note	Loader panel (1)		1
32	* Note	Loader panel (2)		1
33	* Note	Loader panel (3)		1
⚠ 34	* Note	AC cord		1
⚠ 34-1	9LE P000 62	3P BS adaptor	U.K. model only	1
⚠ 35	* Note	Power trans		1
36	9LE K009 71	30P FFC cable (L=100)	for display P.W.B.	1
★ 37	9LE K009 72	30P FFC cable (L=200)	for CD mecha.	1
⚠ 38	* Note	Fuse	F001	1
★ 39	9L3 9737 31	Bar lock tie		7
★ 40	9L3 7310 82	Purse lock DIA 11.5		2
★ 41	9L3 7282 73	Purse lock DIA 8.0		1
42	9LP C031 61	Mic volume knob	Asia model only	1
43	9LE R002 42	1P US pin jack (yellow)	Asia model only	1
★ 44	* Note	Rear label		1
★ 45	9LQ N031 21	Transportion label		1
★ 46	* Note	Origin label		1
★ 47	* Note	Origin label		1
★ 48	9L4 9303 12	Number sheet		1
★ 49	9LQ K000 51	Manufactured label	U.S.A./Canada models	1
★ 50	9L4 9485 11	Fuse caution label	U.S.A./Canada models	1
★ 51	9LQ L050 11	Caution label	U.S.A./Canada models	1
SCREWS & NUTS				
101	9L8 6796 06	Screw 4x6 DT BIND B		8
102	9L8 6914 08	Screw 3x8 BT BIND		6
103	9L8 6914 10	Screw 3x10 BT BIND		48
104	9L8 6914 14	Screw 3x14 BT BIND		2
105	9L8 6994 08	Screw 3x8 BT BIND B		4
106	9L8 6994 10	Screw 3x10 BT BIND B		28
107	9L8 6994 14	Screw 3x14 BT BIND B		4
108	9LM K002 46	Nut M9x0.75		1
109	9L8 6014 08	Flat screw 3x8 DT BIND		1
110	9L8 6714 04	Screw 3x4 DT BIND		3
111	9LM K003 21	Nut M12x1	Asia model only	1
PACKING & ACCESSORIES (Not included EXPLODED VIEW.)				
201	* Note	Carton box		1
202	* Note	Control label		1
203	9LS P053 51	Cushion L		1
204	9LS P053 61	Cushion R		1
205	9L3 6275 65	Pory sack	for AC cord	1
206	* Note	Pory sack	for set	1
207	* Note	Control sheet		1
208	9LS X006 91	Origin label	Asia model only	1
209	9LQ N019 95	UPC label	U.S.A./Canada models	1
210	9LQ N027 71	EAN label(E2)	Europe model only	1
211	9LQ N027 72	EAN label(EK)	U.K. model only	1
212	9LQ T308 21	Warranty card Ass'y	U.S.A./Canada models	1
213	9LS X006 93	Origin label	Asia model only	1
214	* Note	Carton label		1
215	* Note	Pory sack	for accessories	1
216	9L2 7132 25	1P US pin cord (L=2000)	Asia model only	1
217	9L2 7593 41	AM loop antenna		1
218	9LE F021 33	FM antenna connector		1
219	* Note	Remocon		1
220	* Note	Instruction manual		1

ADDENDUM PARTS LIST

PARTS LIST OF EXPLODED VIEW

Ref. No.	Part Name	Part No.			
		U.S.A/Canada	Europe	U.K.	Asia
1	Main P.W.B. Ass'y	9LJ T082 91	9LJ T082 92	9LJ T082 93	9LJ T082 96
2	CD P.W.B. Ass'y	9LJ T083 01	9LJ T083 02	9LJ T083 03	9LJ T083 06
3	Front panel AL	9LP M064 31	9LP M064 31	9LP M064 31	9LP M064 32
5	Clear panel	9LP H058 71	9LP H058 71	9LP H058 71	9LP H058 81
11	Front panel	9LP H059 01	9LP H059 01	9LP H059 01	9LP H059 02
12	Button (OP/CL)	9LP C030 31	9LP C030 31	9LP C030 31	9LP C030 32
13	Button (play)	9LP C030 41	9LP C030 41	9LP C030 41	9LP C030 42
14	Button (tuner)	9LP C030 51	9LP C030 51	9LP C030 51	9LP C030 52
15	Button (power)	9LP C030 61	9LP C030 61	9LP C030 61	9LP C030 62
16	Volume knob Ass'y	9LP A000 43	9LP A000 43	9LP A000 43	9LP A000 44
23	Rear plate	9LQ A011 41	9LQ A011 41	9LQ A011 41	9LQ A011 42
31	Loader panel (1)	9LP H059 11	9LP H059 11	9LP H059 11	9LP H059 14
32	Loader panel (2)	9LP H059 12	9LP H059 12	9LP H059 12	9LP H059 15
33	Loader panel (3)	9LP H059 13	9LP H059 13	9LP H059 13	9LP H059 16
⚠ 34	AC cord	9LE V007 06	9LE V007 04	9LE V007 04	9LE V007 04
⚠ 35	Power trans.	9LB T011 33	9LB T011 31	9LB T011 31	9LB T011 31
⚠ 38	Fuse T630mA (F001)	—	9L2 7280 72	9L2 7280 72	9L2 7280 72
⚠ 38	Fuse 1.6A/125V (F001)	9L2 7224 13	—	—	—
44	Rear label	9LQ L059 41	9LQ L059 42	9LQ L059 42	9LQ L059 43
46	Origin label	9L4 9313 07	9LQ N029 74	9LQ N029 74	9L4 9313 07
47	Origin label	9L4 9313 06	9LQ N029 73	9LQ N029 73	9L4 9313 06
PACKING AND ACCESSORIES					
201	Carton box	9LS G079 31	9LS G079 32	9LS G079 32	9LS G079 33
202	Control label	9LQ N026 95	9LQ N026 96	9LQ N026 97	9LQ N026 98
206	Pory sack	9LS U010 15	9LS U010 15	9LS U010 14	9LS U010 15
207	Control sheet	9LQ N026 91	9LQ N026 92	9LQ N026 93	9LQ N026 94
214	Carton label	9LQ N029 84	9LQ N029 85	9LQ N029 85	9LQ N029 83
215	Pory sack	9L3 6402 14W	9L3 6402 13W	9L3 6402 14W	9L3 6402 14W
219	Remocon RC-846	9LH L009 03	9LH L009 03	9LH L009 03	—
219	Remocon RC-847	—	—	—	9LH L009 04
220	Instruction manual	9LQ R262 01	9LQ R262 02	9LQ R262 02	9LQ R262 04

EXPLODED VIEW OF CD CHANGER MECHANISM UNIT

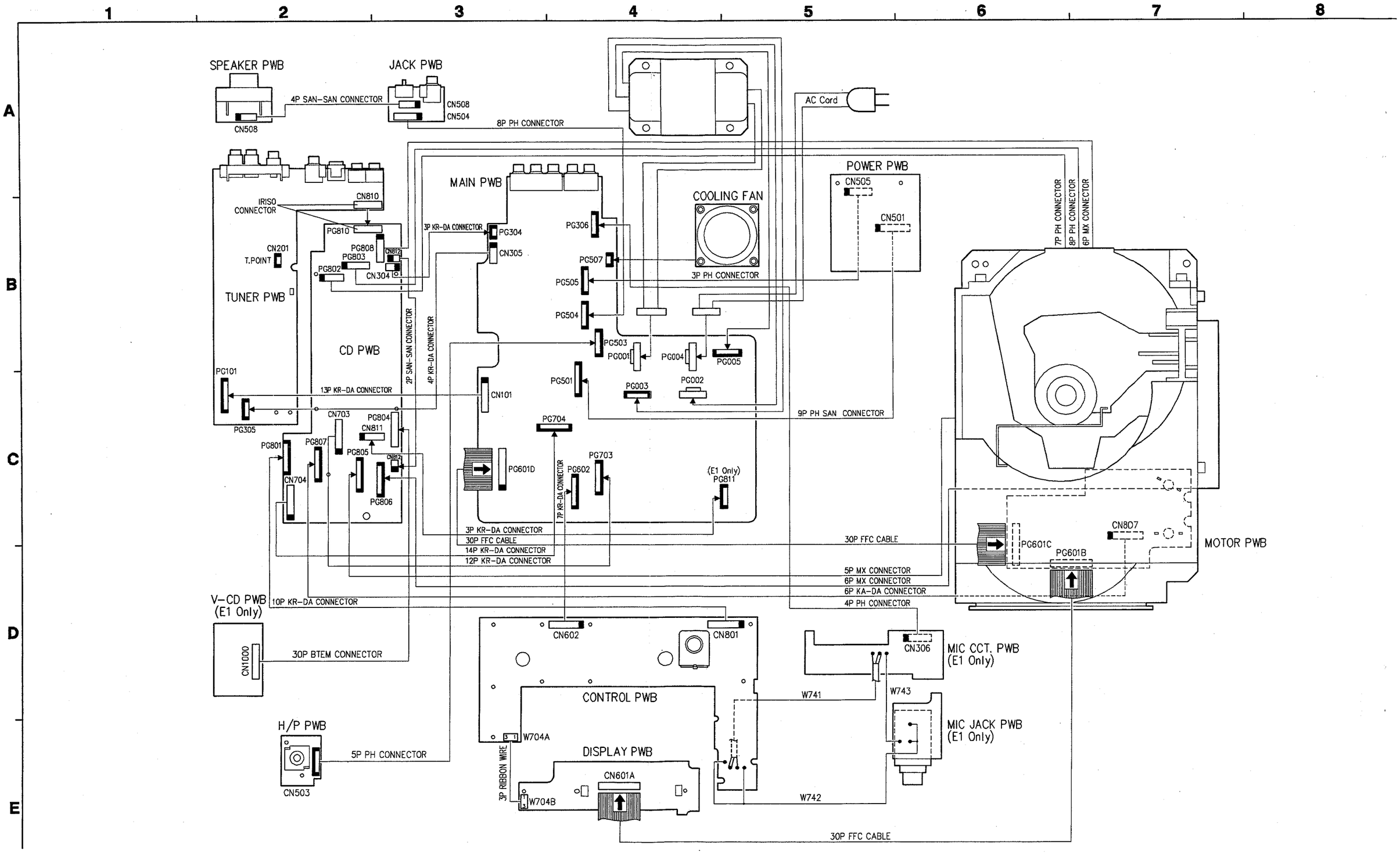


PARTS LIST OF CD CHANGER MECHANISM UNIT (Part No. : 9LU C004 51)

Ref. No.	Part No.	Part Name	Remarks	Q'ty
LOADER MECH. SECTION				
101	937 0233 003	Main base	1242070025	1
102	937 0233 100	Top board	1242000146	1
103	937 0233 207	Cam guide roller	1242870011	3
104	937 0233 304	Drive pulley	1102860025	2
105	937 0233 401	Idler gear	1242810041	1
106	937 0233 508	Cam gear	1242810042	1
107	937 0233 605	Middle gear	1242810043	1
108	937 0233 702	Tray idler gear	1242810046	12
109	937 0233 809	Main cam	1242410001	1
110	937 0233 906	Front switch lever	1242480078	2
111	937 0234 002	Rear switch lever Ass'y	1242480115	2
112	937 0234 109	Tray lock lever	1242480080	3
113	937 0234 206	Mecha holder	1243450005	1
114	937 0234 303	Stabilizer holder	1243450006	1
115	937 0234 400	Stabilizer	1242140101	1
116	937 0234 507	Mecha holder guide	1243450004	1
119	937 0234 604	Guide tray	1241100051	3
120	937 0234 701	Disk tray	1241100052	3
121	937 0234 808	Switch angle	1242000147	1
122	937 0234 905	Tray change shaft	1242900077	1
123	937 0235 001	Tray switch spring	1242580117	4
124	937 0235 108	Tray lock lever spring	1242580119	3
125	937 0235 111	Disk stop spring	1242580118	1
126	937 0235 205	Tray drive belt	1242710003	1
127	937 0235 302	Cam drive belt	1242710004	1
128	937 0235 409	Magnet	1103730019	1
129	445 0033 005	Nylon band (L=80mm)	1309330057	2
130	937 0235 506	Rubber sheet	1243520009	1
131	937 0235 603	Mecha holder angle	1242000192	1
132	937 0235 700	Change box	1242070027	1
133	937 0235 807	Center gear	1242810044	1
134	937 0235 904	Center tray gear	1242810045	3
135	937 0236 000	Tray drive gear	1242810047	6
136	937 0236 107	Tray change lever	1242480074	3
137	937 0236 204	Top joint lever	1242480075	1
138	937 0236 301	Middle joint lever	1242480076	1
139	937 0236 408	Bottom joint lever	1242480077	1
140	937 0236 602	Motor Ass'y	1246300041 for main cam	1
141	937 0236 602	Motor Ass'y	1246300041 for tray	1
142	937 0236 709	Cam switch	1245300022	2
143	937 0041 606	Tray switch	1305301248	4
201	937 0236 505	Screw 2.6x4	1309700139	4
202	937 0236 518	Screw 2x7	1429700216	3
203	937 0236 521	Screw 2x6	1429700120	3
204	937 0182 947	Screw 2.6x12	1429700072	4
205	937 0231 047	Screw with washer 2.6x10	1129700192	4

Ref. No.	Part No.	Part Name	Remarks	Q'ty
TRAVERES SECTION				
1	937 0121 005	Middle gear	1102810126	1
2	937 0121 102	Draiv gear	1102810127	1
3	937 0121 209	Guide railroller	1102480681	1
4	937 0121 306	Guide shaft	1102900223	1
5	937 0121 403	Gum cushion (gray)	1303260448	2
6	937 0227 103	Pickup unit	1306170020	1
7	937 0164 305	Gum cushion (green)	1103260278	1
8	937 0164 208	Gum cushion (red)	1103260275	1
9	937 0150 607	Chassis with motor Ass'y	1106300208	1
10	937 0122 004	Slide motor Ass'y	1106300207	1
11	937 0122 208	Limit switch	1105300522	1
51	937 0121 801	Screw 2.6x6	1109700937	2
52	937 0121 814	Screw 2x5	1109700938	2
53	937 0121 827	Screw 2x3	1309701564	2
54	937 0121 908	Cut washer φ1.5xφ3.8x0.25mm	1109900315	1

WIRING DIAGRAM

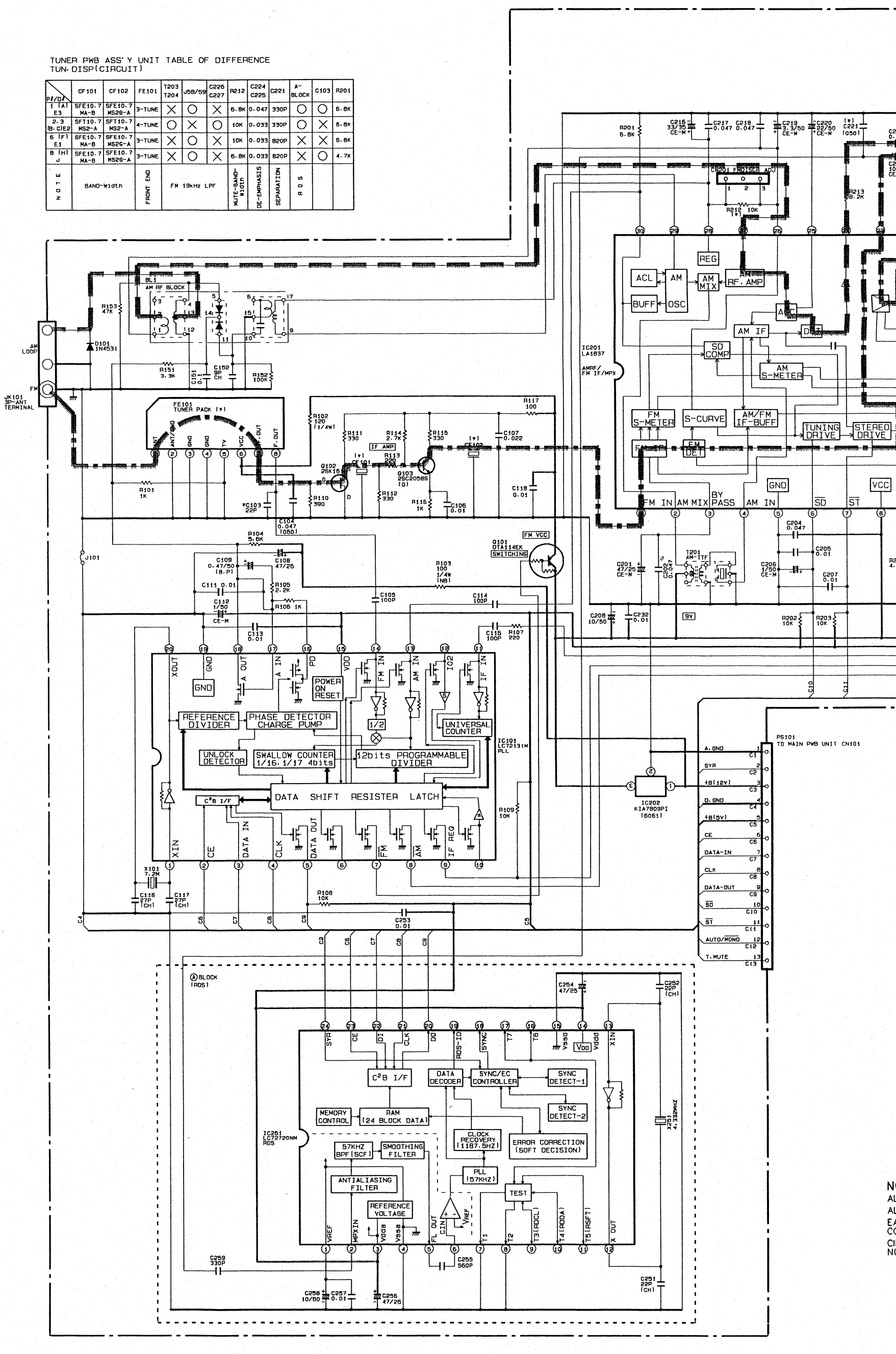


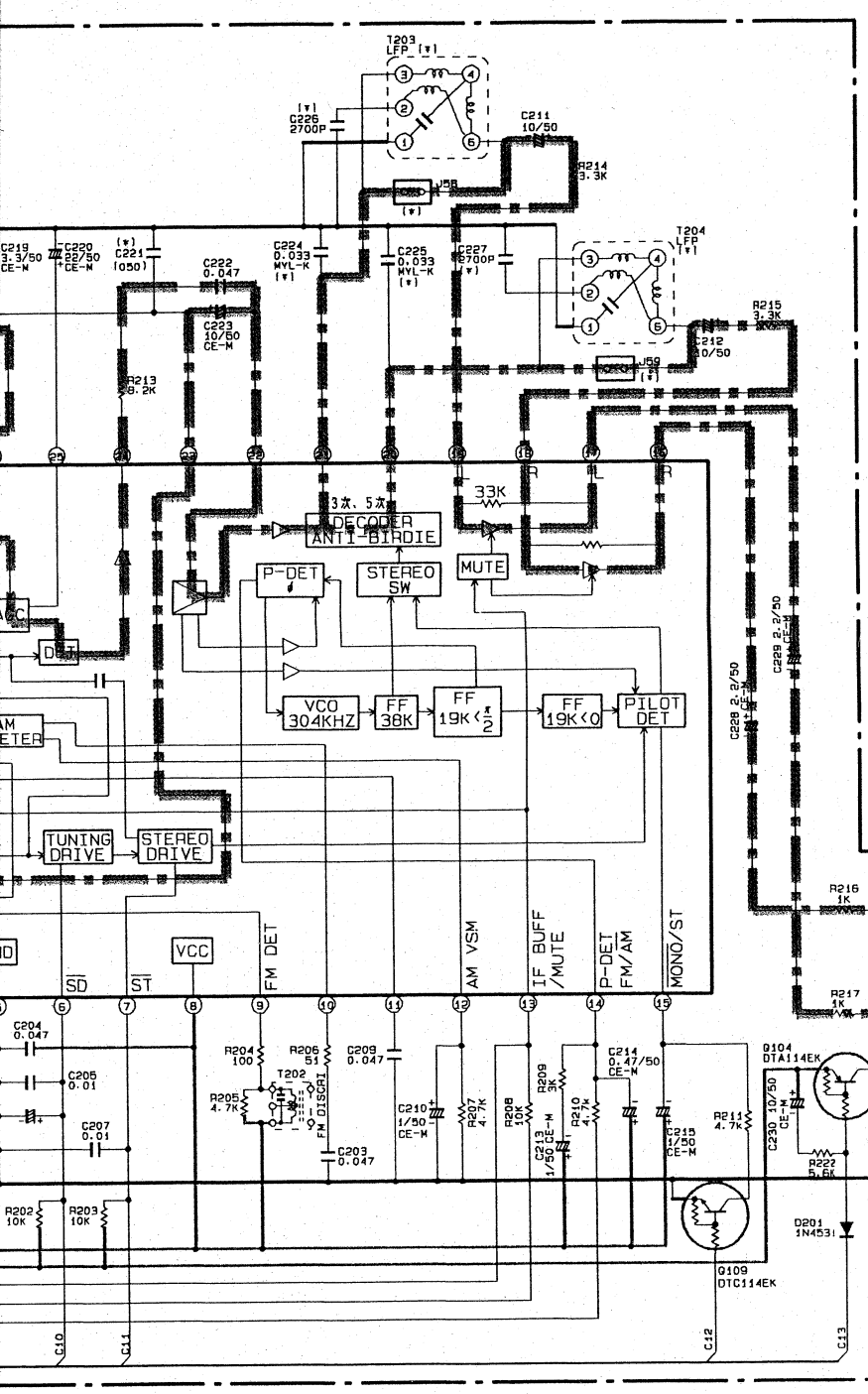
SCHEMATIC DIAGRAMS (1/4)

1 2 3 4 5 6

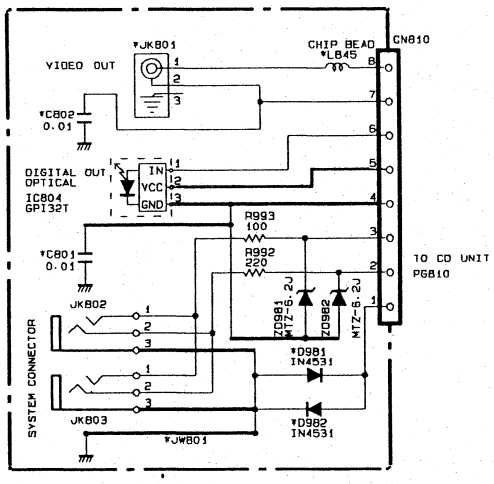
TUNER PWB ASS'Y UNIT TABLE OF DIFFERENCE
TUN. DISP(CIRCUIT)

P#/D#	CF101	CF102	FE101	T203 T204	J58/59	C226 C227	R212	C224 C225	C221	A-BLOCK	C103	R201
1 (A) E3	SFE10.7 MA-B	SFE10.7 MS26-A	3-TUNE	X	O	X	6.8K	0.047	330P	O	O	6.8K
2, 3 (B, C)E2	SFT10.7 MS2-A	SFT10.7 MS2-A	4-TUNE	O	X	O	10K	0.033	330P	O	X	6.8K
6 (F) E1	SFE10.7 MA-B	SFE10.7 MS26-A	3-TUNE	X	O	X	10K	0.033	820P	X	X	6.8K
8 (H) J	SFE10.7 MA-B	SFE10.7 MS26-A	3-TUNE	X	O	X	6.8K	0.033	820P	X	O	4.7K
NOTE	BAND-Width		FRONT END	FM 19kHz LPF			MUTE-BAND-Width	DE-EMPHASIS	SEPARATION	RDS		





PG101
TO MAIN PWB UNIT CN101



DEST	C801	C802	D981	D982	JK801	JW801	L845
E1	○	○	×	×	○	○	○
E2, EK	○	×	×	×	×	○	×
E3	×	×	○	○	×	×	×
J	×	×	○	○	×	×	×

——— +B LINE

▬ ▬ ▬ AM SIGNAL LINE

▬ ▪ ▬ ▪ ▬ FM SIGNAL LINE

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:

Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:

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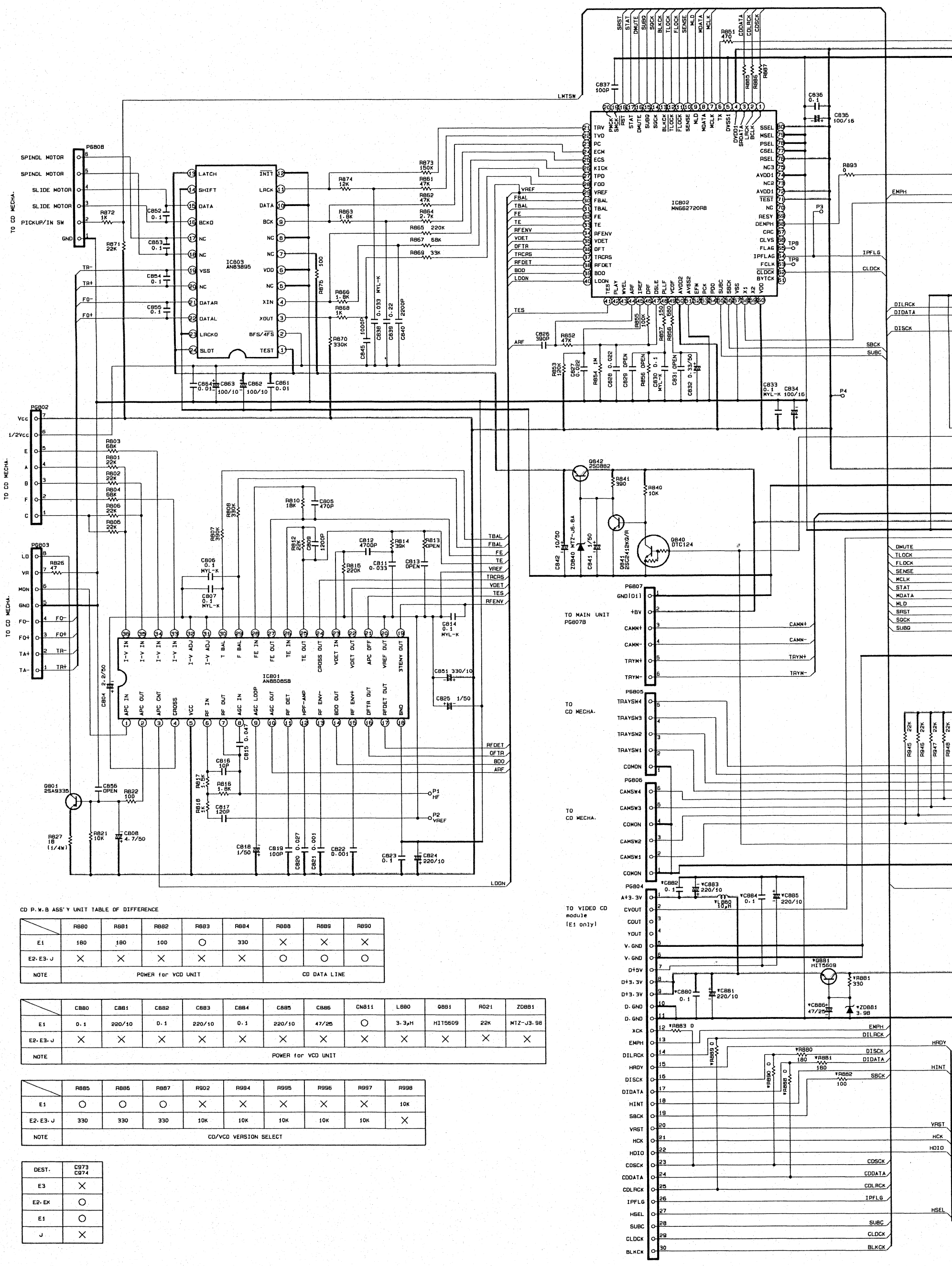
SCHEMATIC DIAGRAMS (2/4)



CD P.W.B ASS'Y UNIT TABLE OF DIFFERENCE

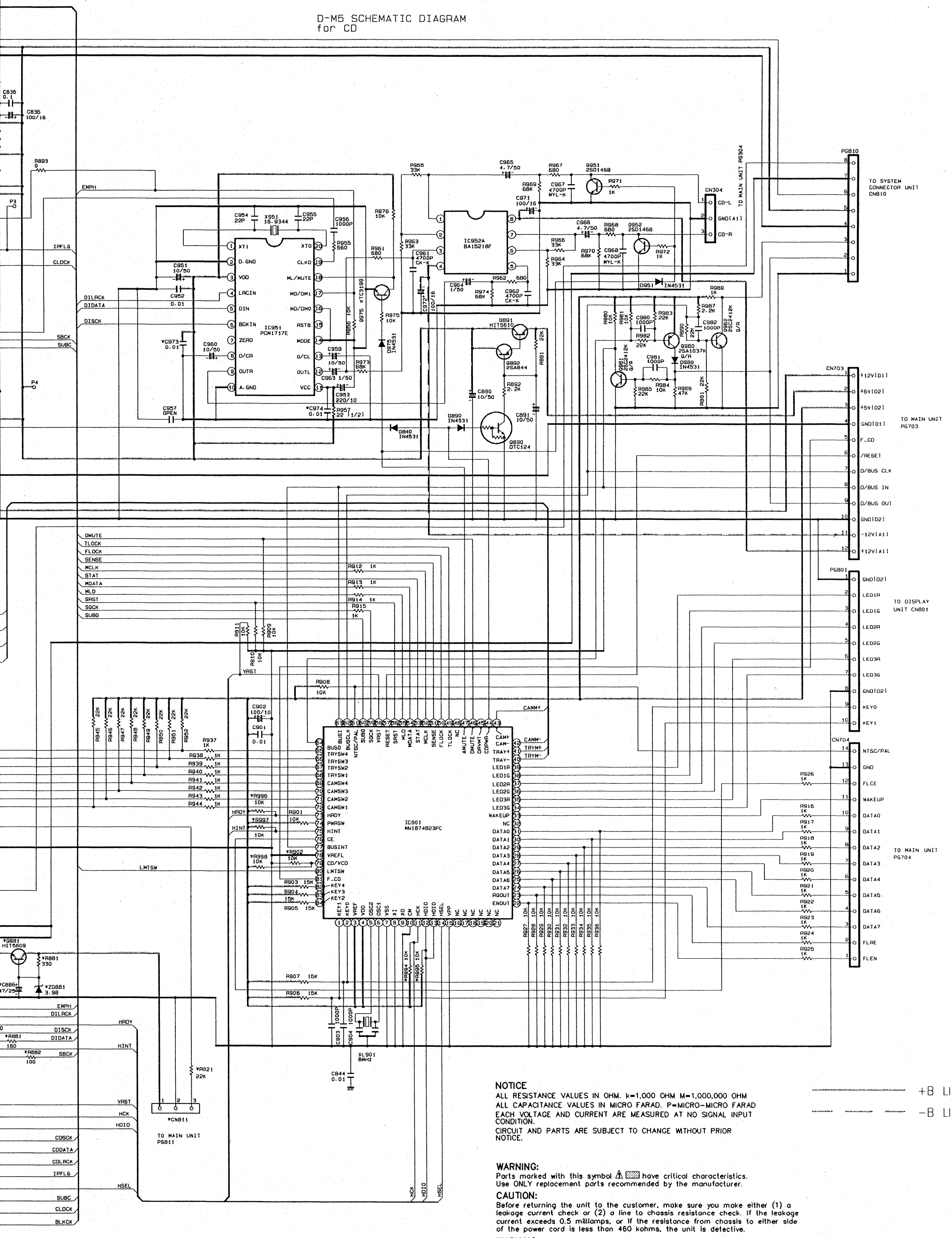
	R880	R881	R882	R883	R884	R888	R889	R890
E1	180	180	100	○	330	×	×	×
E2, E3, J	×	×	×	×	×	○	○	○
NOTE	POWER for VCD UNIT					CD DATA LINE		

	C880	C881	C882	C883	C884	C885	C886	CN811	L880	Q881	R021	ZD881
E1	0.1	220/10	0.1	220/10	0.1	220/10	47/25	○	3.3μH	HIT5609	22K	MTZ-J3.9B
E2, E3, J	×	×	×	×	×	×	×	×	×	×	×	×
NOTE	POWER for VCD UNIT											

	R885	R886	R887	R902	R994	R995	R996	R997	R998
E1	○	○	○	×	×	×	×	×	10K
E2, E3, J	330	330	330	10K	10K	10K	10K	10K	×
NOTE	CD/VCD VERSION SELECT								

DEST.	C973 C974
E3	×
E2, EK	○
E1	○
J	×

D-M5 SCHEMATIC DIAGRAM
for CD



NOTICE

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+B LINE
−B LINE

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WARNING:

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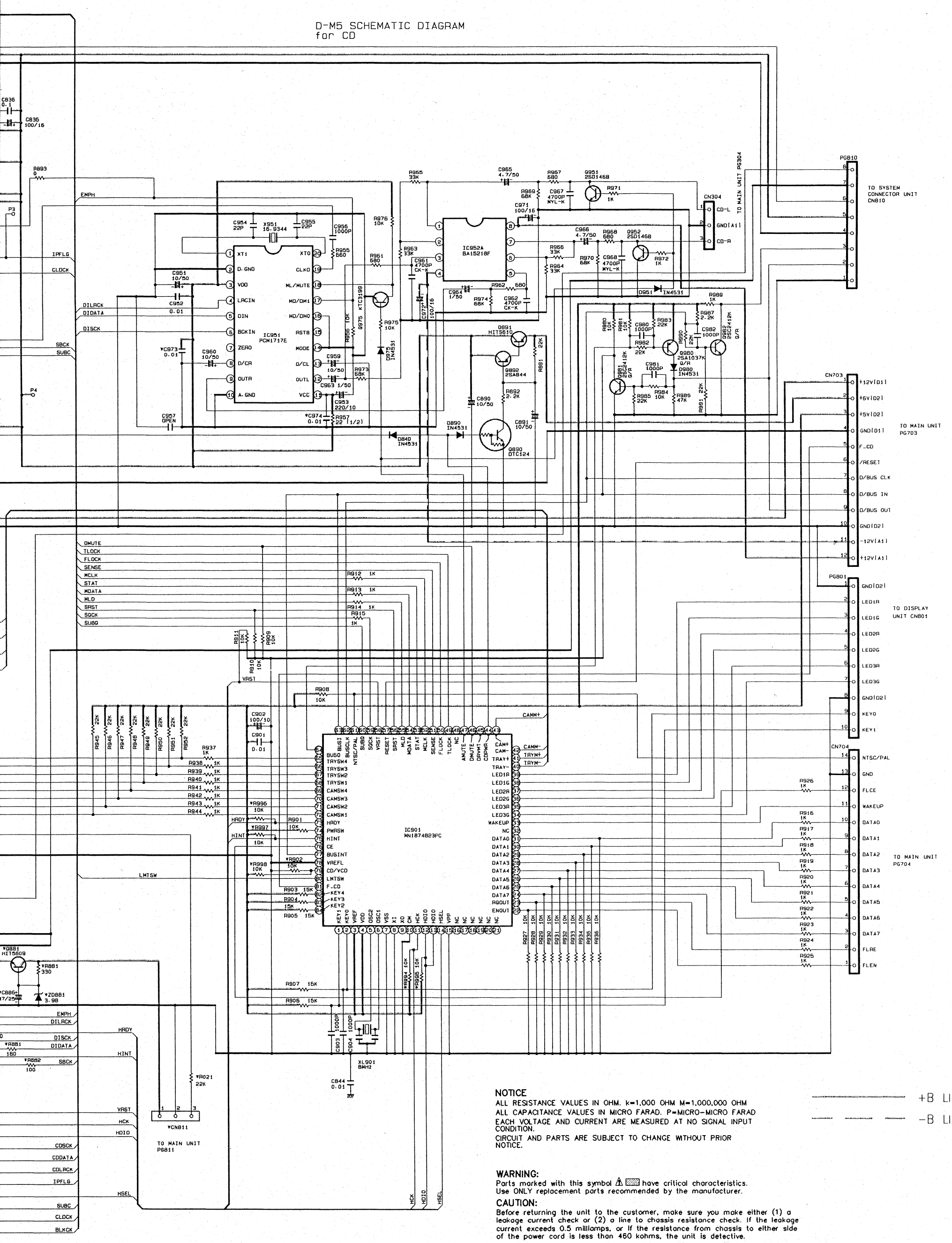
D-M5 SCHEMATIC DIAGRAM
for CD



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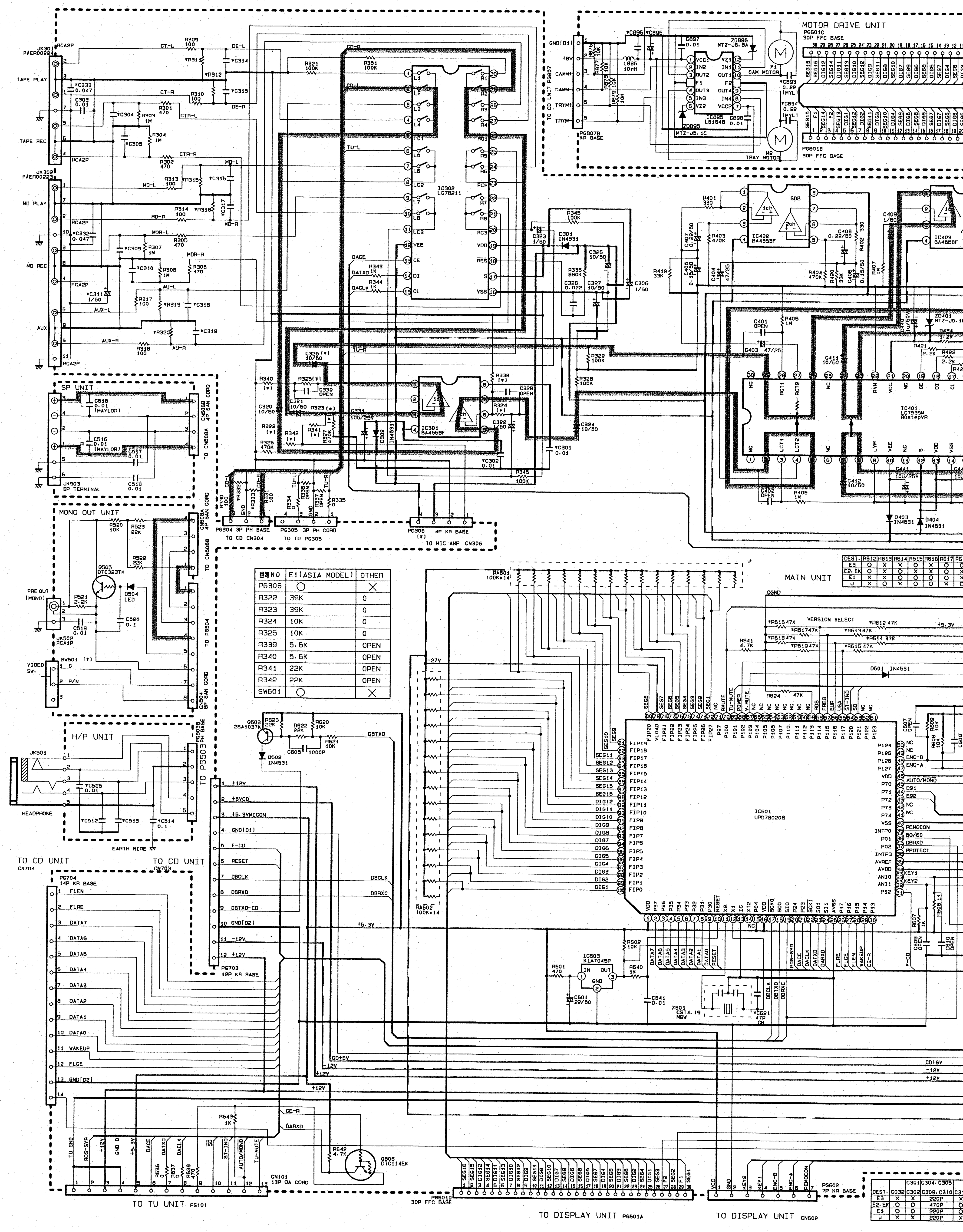
+B LINE
-B LINE

SCHEMATIC DIAGRAMS (3/4)

1 2 3 4 5 6



JK301 P/ER00224 RCA2P
TAPE PLAY
TAPE REC
JK302 P/ER00223
MD PLAY
MD REC
AUX
CT-L
CT-R
DE-L
DE-R
CTR-L
CTR-R
MD-L
MD-R
MDR-L
MDR-R
AU-L
AU-R
AUX-L
AUX-R
CD-R
CD-L
TU-L
TU-R
IC302 LC78211
IC301 BA4558F
D301 IN4531
D302 IN4531
SP UNIT
JK503 SP TERMINAL
CN508B 4P SAN CORD
TO CN508A
MONO OUT UNIT
Q505 DTC323TK
D504 LED
PRE OUT (MONO)
JK502 RCA1P
SW601 (*)
VIDEO SW.
CN504 8P SAN CORD
TO PG504
H/P UNIT
JK501
HEADPHONE
EARTH WIRE
PG503B PH BASE
TO PG503
PG304 3P PH BASE
TO CD CN304
PG305 3P PH CORD
TO TU PG305
PG306 4P KR BASE (*)
TO MIC AMP CN306
TO CD UNIT CN704
TO CD UNIT CN703
PG704 14P KR BASE
FLEN
FLRE
DATA7
DATA6
DATA5
DATA4
DATA3
DATA2
DATA1
DATA0
WAKEUP
FLCE
GND(D2)
PG703 12P KR BASE
+12V
+6VCD
+5.3VMICON
GND(D1)
F-CD
RESET
DBCLK
DBRXD
DBTXD-CD
-12V
CN101 13P DA CORD
TO TU UNIT PG101
TU GND
RDS-SYR
GND D
+5.3V
DACE
DATXD
DACLK
SD
ST-IND
AUTO/MONO
TU-MUTE
Q603 2SA1037K
D602 IN4531
Q605 DTC114EK
MOTOR DRIVE UNIT
TO CD UNIT PG807
PG807B KR BASE
GND(D1)
+8V
CAMM+
CAMM-
TRYM+
TRYM-
IC895 LB1648
ZD896 MTZ-J6.8A
ZD895 MTZ-J5.1C
M1 CAM MOTOR
M2 TRAY MOTOR
PG601C 30P FFC BASE
PG601B 30P FFC BASE
IC402 BA4558F
IC403 BA4558F
IC401 LC7535M 80stepVR
ZD401 MTZ-J5.1
D403 IN4531
D404 IN4531
MAIN UNIT
RA601 100Kx14
RA602 100Kx14
VERSION SELECT
D601 IN4531
IC601 UPD780208
IC603 KIA7045P
X601 CST4.19 MGW
REMOCON
50/60
DBRXD
PROTECT
KEY1
KEY2
ENC-A
ENC-B
AUTO/MONO
EG1
EG2
CD+6V
PG601D 30P FFC BASE
TO DISPLAY UNIT PG601A
PG602 7P KR BASE
TO DISPLAY UNIT CN602

回路NO	E1(ASIA MODEL)	OTHER
PG306	○	×
R322	39K	0
R323	39K	0
R324	10K	0
R325	10K	0
R339	5.6K	OPEN
R340	5.6K	OPEN
R341	22K	OPEN
R342	22K	OPEN
SW601	○	×

DEST.	R612	R613	R614	R615	R616	R617
E3	O	X	X	O	X	O
E2, EK	O	X	O	X	X	O
E1	X	X	O	O	O	O
J	X	O	X	O	O	X

		C301	C304, C305
DEST.	C032	C302	C309, C310
E3	X	X	220P
E2, EK	O	O	470P
E1	O	O	220P
J	X	X	220P

NOTICE
ALL RESISTANCE VALU
ALL CAPACITANCE VAL
EACH VOLTAGE AND C
CONDITION.
CIRCUIT AND PARTS A
NOTICE.

6 7 8 9 10 11

A B C D E F G H

RIVE UNIT

TO PG507
COOLING FAN

POWER AMP UNIT

IC501 STK405-050A +25dB

PG501 9P PH BASE
CN501 9P SAN CORD

PG505 9P SAN CORD TO PG506

PG505 3P PH BASE TO PG505

PG503A 5P PH BASE
TO PG503B
TO CN504
PG504 8P PH BASE

PG507 3P PH BASE TO COOLING FAN

PG602 7P KR BASE

PG002 3P VH BASE
PG003 3P PH BASE
PG004 4P VH BASE
PG001 4P VH BASE
3P VH CON
4P VH CON
3PPH CON
TRANS M5
POWER TRANS
CN001 4P VH CONNECTOR

PG811 3P PH
TO CD UNIT CNB11

AC CORD

RY601 RELAY

IC401 LC7535M 80stepVR
IC403 BA4558F
IC404 BA4558F
IC405 M52412P
IC002 BA12ST
IC003 KIA7812
IC004 BA05ST
IC001 KIA7805
IC602 BR9040F

DEST.	R612	R613	R614	R615	R616	R617	R618	R619
E3	O	X	X	O	X	O	O	X
E2, EK	O	X	X	X	X	O	X	O
E1	X	X	O	O	O	X	X	X
J	X	O	X	O	O	X	O	X

DEST.	C032	C301 C302	C304, C305 C309, C310	C311	C314 C319	C332 C333	C426	C512 C513	C514	C526	C528	C621	IC004	PG811	F001 (FUSE)	R001	TRANS
E3	X	X	220P	X	100P	X	X	220P	X	X	SHORT	O	X	X	1.6A 125V	O	BT01133
E2, EK	O	O	470P	O	1000P	O	O	1000P	O	O	O	X	X	X	T630mA 250V	X	BT01131
E1	O	O	220P	O	1000P	O	O	220P	O	O	O	X	O	O	T630mA 250V	X	BT01131
J	X	X	220P	X	100P	X	X	220P	X	X	SHORT	O	X	X	1.6A 125V	X	BT01132

DEST.	R311 R312	R315 R316	R319 R320	R332 R333	C893 C894	C895	C896
E1 (ASIA MODEL)	220K	220K	220K	220K	0.22 (MYL)	330/25	0.1
OTHERS	51K	51K	51K	51K	X	100/25	0.01

J: AC100V, 50/60Hz
E3: AC120V, 60Hz
E1/E2/EK: AC230V, 50Hz

NOTICE
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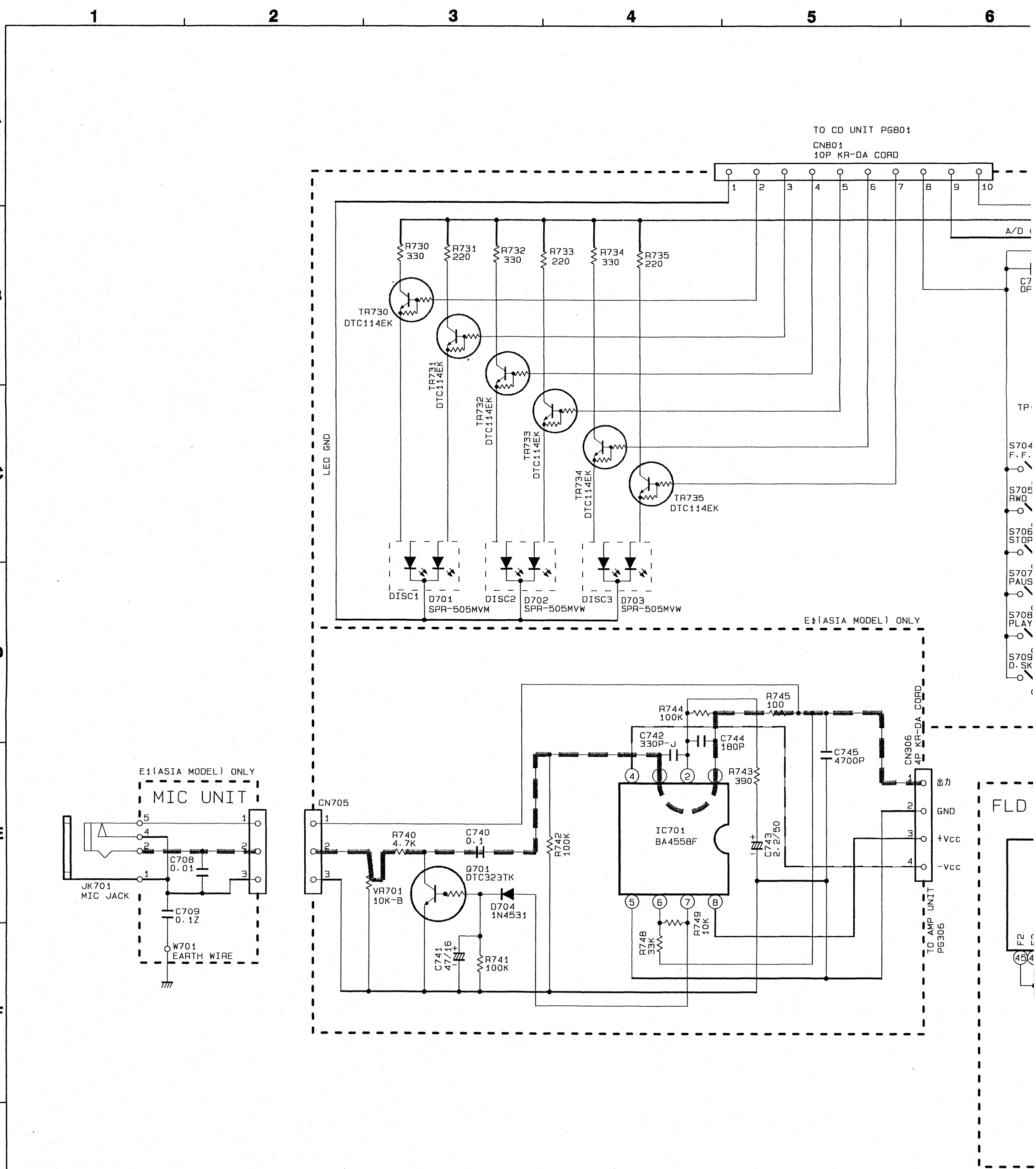
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

+B LINE
−B LINE
SIGNAL LINE

SCHEMATIC DIAGRAMS (4/4)



NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:

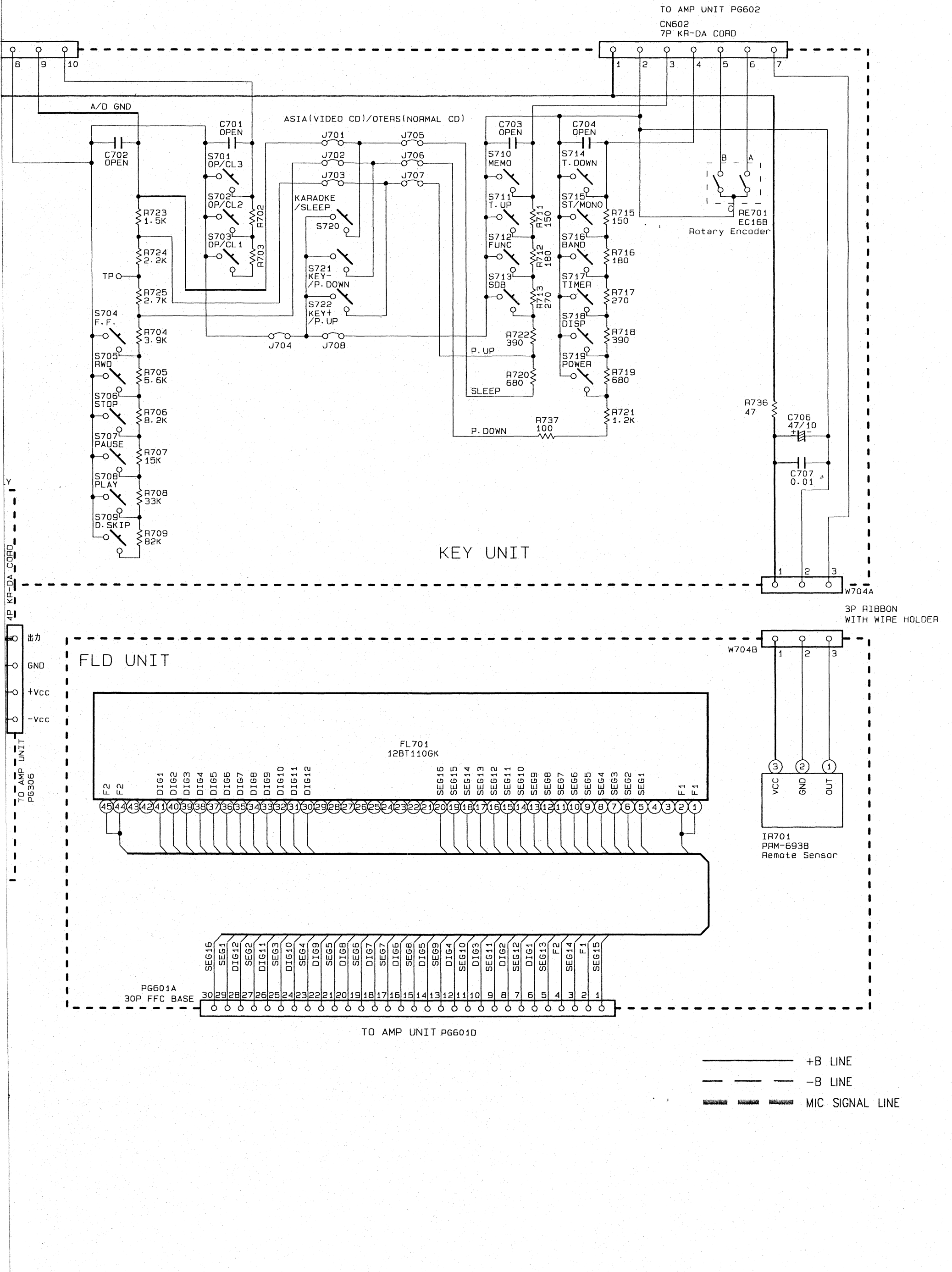
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:

DO NOT return the unit to the customer until the problem is located and corrected.


TO AMP UNIT PG602
CN602
7P KR-DA CORD
A/D GND
ASIA(VIDEO CD)/OTERS(NORMAL CD)
C701 OPEN
C702 OPEN
C703 OPEN
C704 OPEN
S701 OP/CL3
S702 OP/CL2
S703 OP/CL1
S704 F.F.
S705 RWD
S706 STOP
S707 PAUSE
S708 PLAY
S709 D.SKIP
S710 MEMO
S711 T.UP
S712 FUNC
S713 SDB
S714 T.DOWN
S715 ST/MONO
S716 BAND
S717 TIMER
S718 DISP
S719 POWER
S720 KARAOKE /SLEEP
S721 KEY- /P.DOWN
S722 KEY+ /P.UP
R723 1.5K
R724 2.2K
R725 2.7K
R704 3.9K
R705 5.6K
R706 8.2K
R707 15K
R708 33K
R709 82K
R702
R703
R711 150
R712 180
R713 270
R722 390
R720 680
R737 100
R715 150
R716 180
R717 270
R718 390
R719 680
R721 1.2K
TP
P.UP
SLEEP
P.DOWN
RE701 EC16B
Rotary Encoder
R736 47
C706 47/10
C707 0.01
W704A
KEY UNIT
4P KR-DA CORD
TO AMP UNIT PG306
压力
GND
+Vcc
-Vcc
FLD UNIT
FL701
12BT110GK
W704B
3P RIBBON
WITH WIRE HOLDER
VCC
GND
OUT
IR701
PAM-6938
Remote Sensor
PG601A
30P FFC BASE
TO AMP UNIT PG601D
+B LINE
-B LINE
MIC SIGNAL LINE

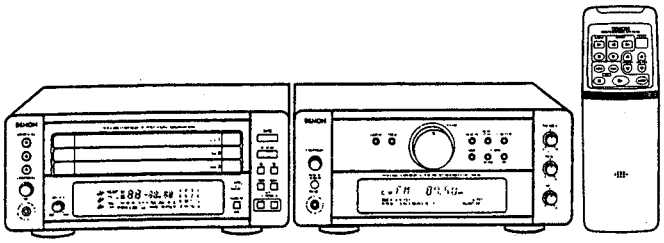
DENON

Hi-Fi Stereo Component

SUPPLEMENT

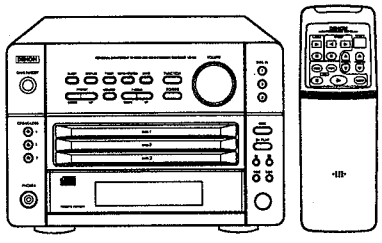
SERVICE MANUAL

MODEL D-M7/UD-M5



PERSONAL COMPONENT SYSTEM
D-M7

Unit No. UDRA-M7 (Receiver)
Unit No. UDCM-M7 (Compact Disc Player)



STEREO CD RECEIVER
UD-M5

How to disassemble the CD Changer Mechanism used in D-M7 and UD-M5 is described in this service manual. Refer to the already issued service manual of D-M7 and D-M7 (Supplement) also for servicing D-M7, and UD-M5 for servicing UD-M5 at the same time.

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DISASSEMBLY ..... 2~4
CD WAVEFORM CONFIRMATION 5

● **Some illustrations using in this service manual are slightly different from the actual set.**

NIPPON COLUMBIA CO., LTD.

Mechanism Section

(Follow the procedure below in reverse order when reassembling)

1. Traverse Mecha. Ass'y

(1) Take off Top Board by removing 2 screws ①. (Fig. A)
(2) Pull up Tray Change Shaft, and remove Top, Middle and Bottom Joint Levers. (Fig. B)
(3) Lower the Traverse Mecha. by turning Main Cam or Cam Gear to the arrow direction (counterclockwise) to disengage chucking of Disc Tray, and put it in Guide Tray. (Fig. A)
(4) Pull out the Tray part with pressing the front of Change Lever as shown with the arrow A ~ C in turn from the top. (Fig. A)
(5) Turn the Main Cam or Cam Gear until it stops turning as shown in the arrow (clockwise). (Fig. B)
(6) Raise Stabilizer Holder with pressing its side hook and release the hook. (Fig. C)
(7) Turn the Main Cam or Cam Gear again to the arrow direction (clockwise), and align recesses of the Main Cam with projections of Mecha. Holder. (Fig. B, D)
(8) Pull up the Stabilizer Holder to take it off. (Fig. C)
(9) Remove screw ② to take off Mecha. Holder Guide. (Fig. C)
(10) Remove 2 screws ③ to take off Mecha. Holder Angle. (Fig. D)
(11) Pull the Traverse Mecha. Ass'y apart after checking that the projections of the Mecha. Holder correspond with the recesses of the Main Cam. (Fig. D)

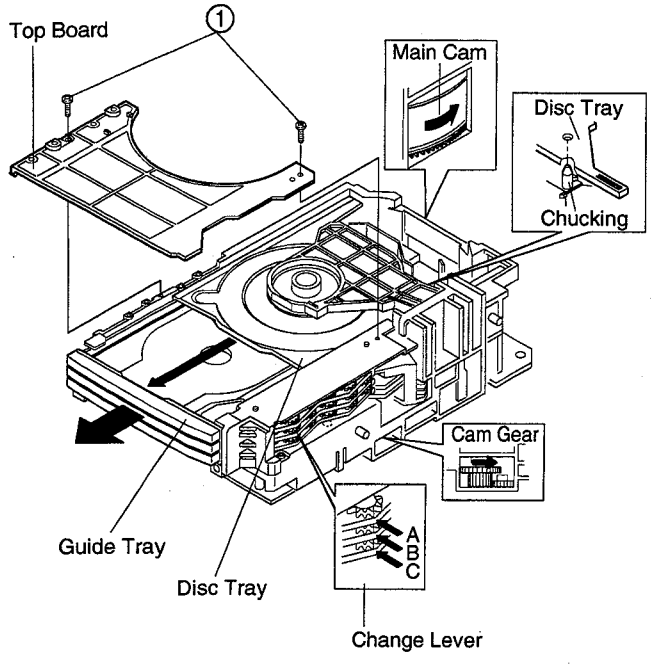


Fig. A

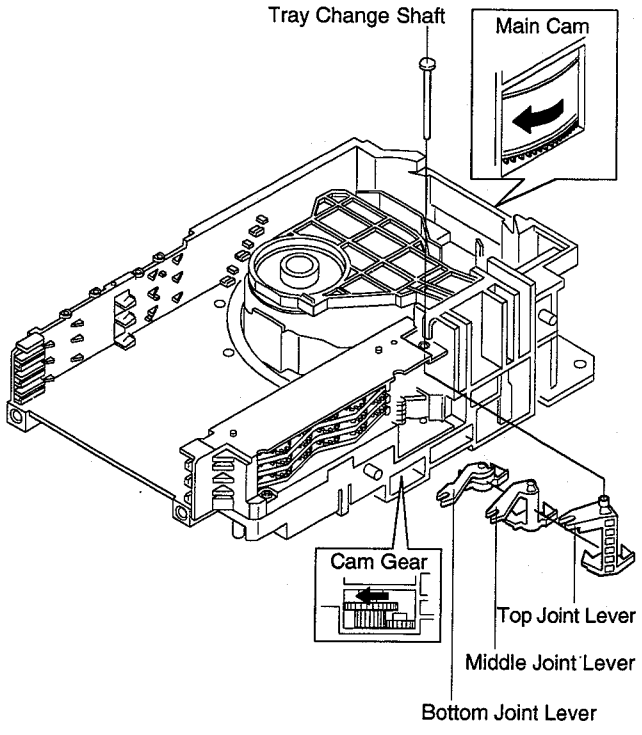


Fig. B

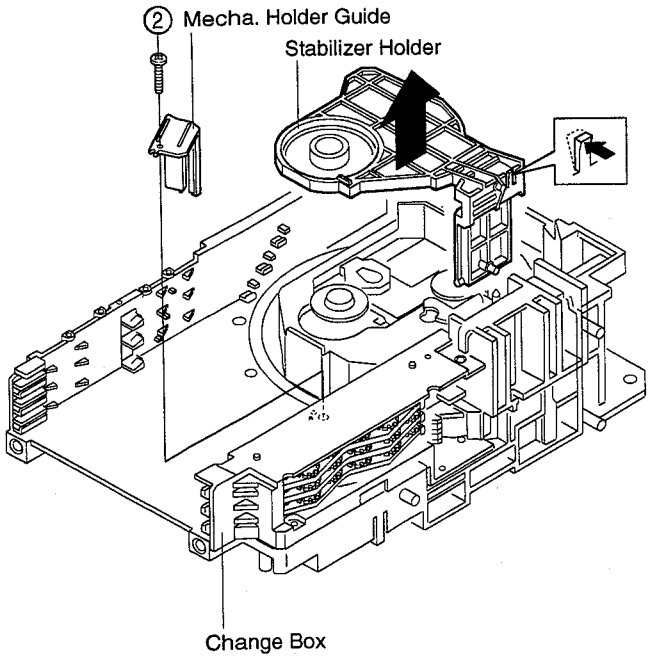


Fig. C

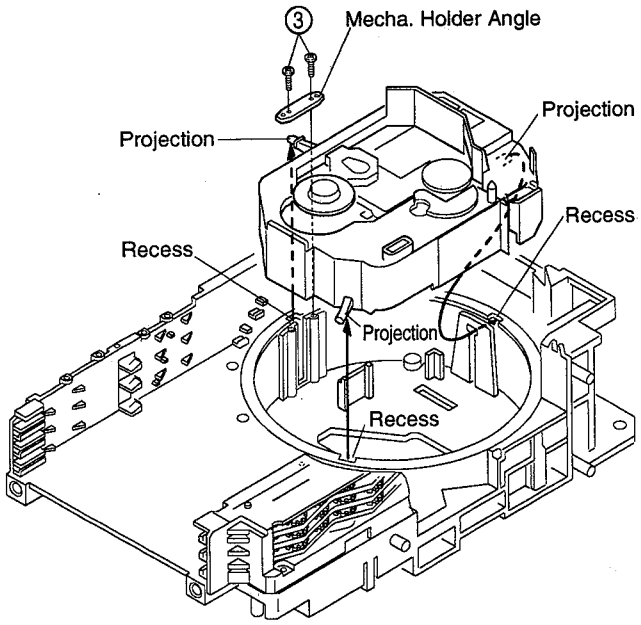


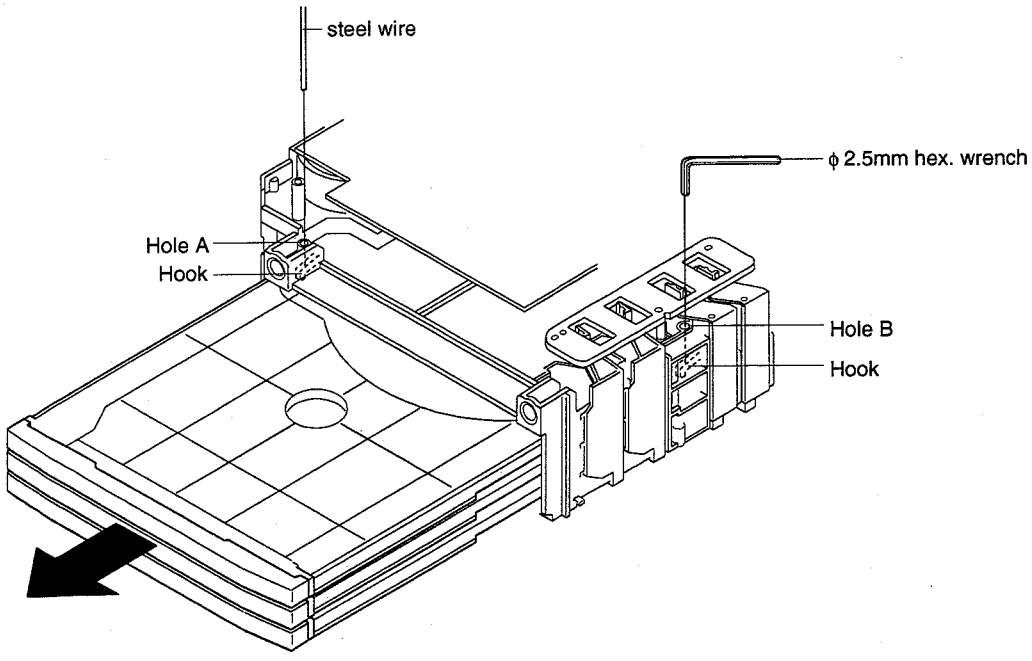
Fig. D

2. Tray 1 ~ 3

(1) Turn the CD Mecha. over.

(2) Insert a steel wire or eyeleteer into the hole A, and ϕ 2.5mm hex. wrench into the hole B through P.W.B. gap to release both hooks at once, then pull the Tray 3 apart as shown in fig.

* Be careful as the hooks may be broken if pushed hard.
* As to releasing the hole B hook for the Tray 1 and 2, finger pushing through side openings is possible.



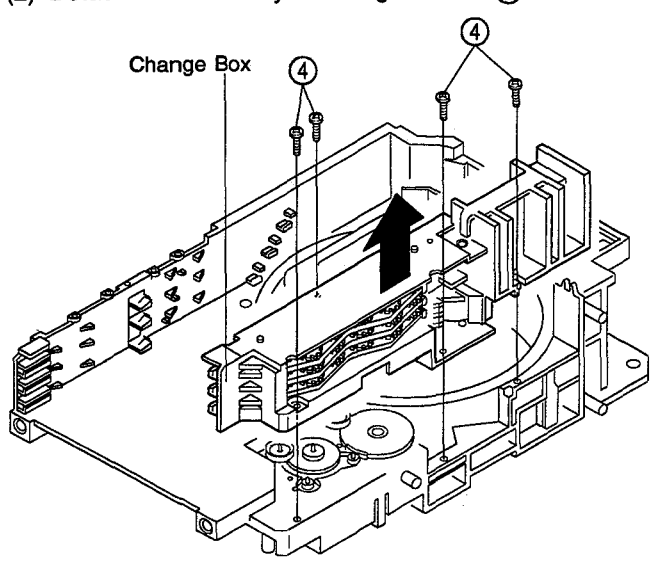
3. Change Box

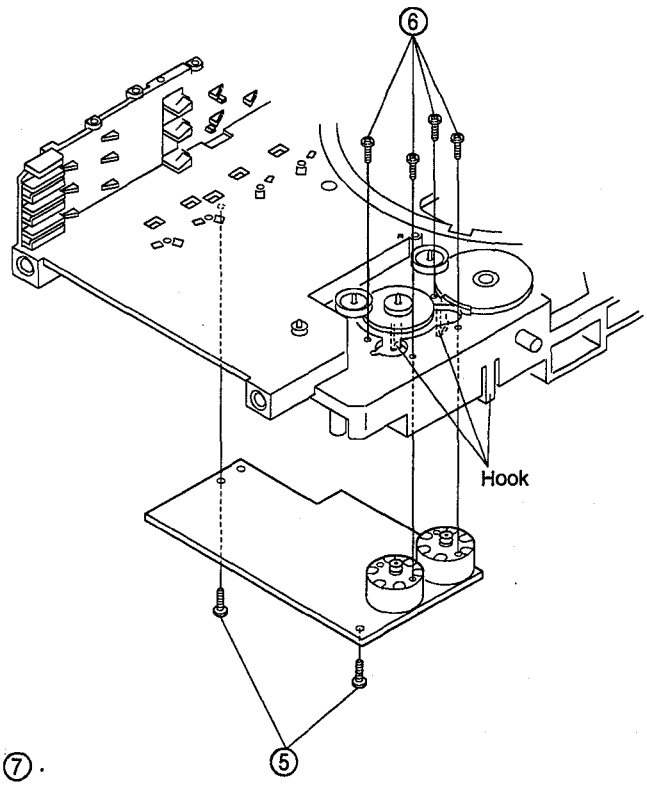
Remove 4 screws ④ and pull up the Change Box.

4. Motor P.W.B.

(1) Remove 2 screws ⑤ from the P.W.B.

(2) Detach the P.W.B. by removing 4 screws ⑥ and 3 hooks.



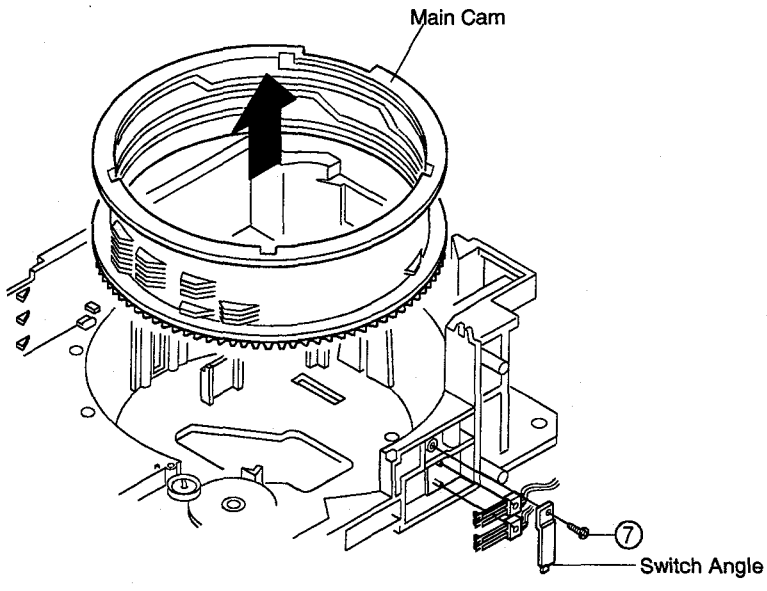


5. Main Cam

(1) Take off Switch Angle and Cam Switch by removing screw ⑦.

(2) Pull the Main Cam apart in the arrow direction.

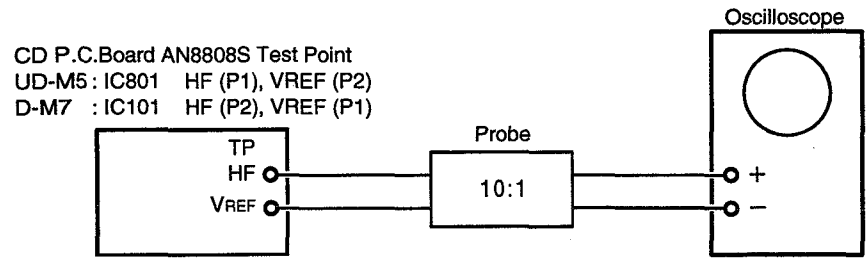
* Cord colors of the Switch Angle are red, brown, orange, green, yellow and blue from the top.



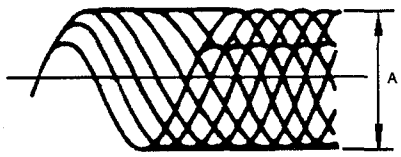
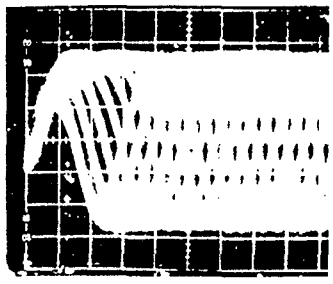
CD WAVEFORM CONFIRMATION

1. HF level Confirming

Connection



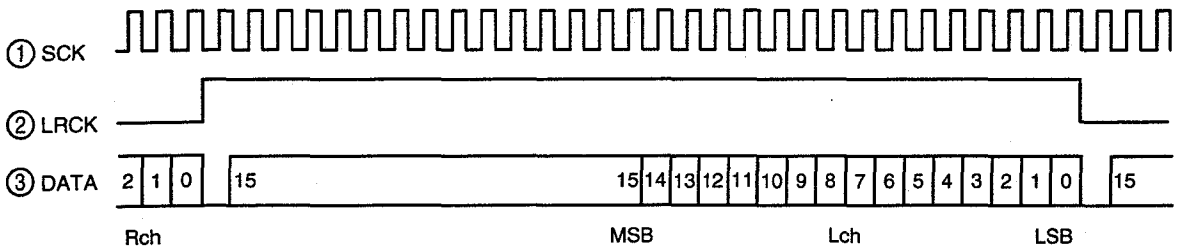
Test Disc: Tomita Yasuko (CA1094)
or MO (TCD-784)

Oscilloscope		Check	Step
V	H	(Oscilloscope)	1. Push ▶ button.
50mV/div or 20mV/div	0.2µs/div or 0.5µs/div	 A=0.3~0.7V	2. Check HF level of oscilloscope.
• Set input mode to ALTERNATE or CHOPPER.			3. Confirm that the waveform is in good shape. (◇eye pattern in center must be discriminated clearly.)

2. Servo IC Output Waveform

(D-M7: IC102, UD-M5: IC802 MN662720RB Pin ① ~ ③)

Rch when LRCK = "L", Lch when LRCK = "H"



DENON

NIPPON COLUMBIA CO., LTD.

14-14, AKASAKA 4-CHOME, MINATO-KU, TOKYO 107-8011 JAPAN
Telephone: 03 (3584) 8111
Cable: NIPPON COLUMBIA TOKYO Telex: JAPANOLA J22591

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